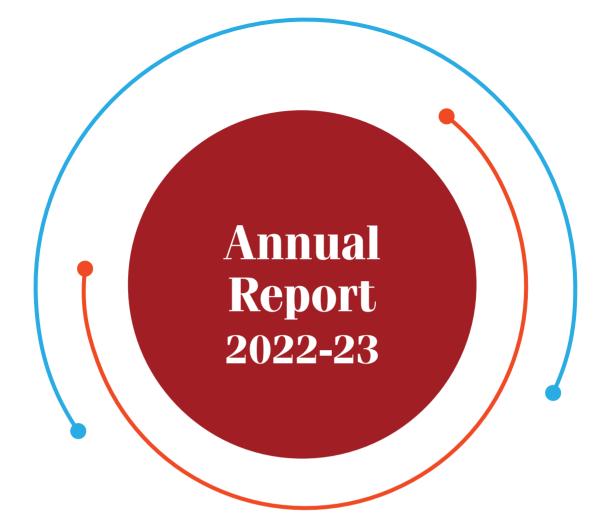


Indian Institute of Technology Bhubaneswar





Indian Institute of Technology Bhubaneswar

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Indian Institute of Technology Bhubaneswar



From the **Director's Desk**

Since its establishment in 2008, IIT Bhubaneswar has embarked on a remarkable journey, culminating in the completion of its 14th year of existence last year. Nestled at the base of the historic Barunei hillock, IIT Bhubaneswar campus is a pristine heaven surrounded by lush greenery. Spanning over 3.8 square kilometers, this natural oasis is home to more than 45,000 evergreen and deciduous trees, including an impressive 2,000 trees planted just last year. The vibrant foliage creates a thriving ecosystem that attracts a plethora of exotic and migratory bird species from around the world. As an Eco-conscious Institute, IIT Bhubaneswar strives to protect the natural environment of the campus while developing up-to-date infrastructure to ensconce itself as a hub of excellence in education and intellect of global importance.

The ongoing infrastructure development, part of Phase II, is nearing completion. This transformative phase, has seen the addition of three new school buildings, the expansion of four existing school buildings, a central workshop, a central research facility, a hostel, 88 flats, and two market complexes over the past year. In a promising move, the Ministry of Education has graciously approved the release of the remaining funds, a part of the total budgeted amount of Rs. 1,260 crores for the completion of Phase II. This financial support is set to facilitate the timely completion of the remaining construction projects, including the Auditorium and Lecture Hall Complex, which are expected to be completed by the financial year 2023-24.

The IITs were initially conceived as institutions aimed at

advancing knowledge through research publications and the production of highly skilled professionals for various industries and sectors, such as manufacturing and services industries, defence and national interest sectors, research labs, as well as educational institutions. Over time, their role has evolved to include addressing societal challenges through sponsored and consultancy projects and outreach education programmes. In recent years, the IITs have also played a significant role in fostering entrepreneurship and supporting startup incubation, thus contributing to wealth creation in the Indian as well as global economy.

Now, with the commencement of the 2023-24 academic session, IIT Bhubaneswar is embarking on a new and ground-breaking initiative. Through the 4-Year Integrated Teacher Education Programme (ITEP) launched this year, the institute is venturing into the realm of teacher education. This endeavor aims to nurture exceptional teachers for school education, thus expanding its reach and impact on our nation's educational landscape.

The institute comprises seven schools, each specializing in diverse fields: the School of Basic Sciences, the School of Electrical Sciences, the School of Humanities, Social Sciences, and Management, the School of Earth, Ocean and Climate sciences, the School of Infrastructure, the School of Mechanical Sciences and School of Minerals, Metallurgical and Materials Engineering. Each of these schools offer a Ph.D. programme, and together they offer 6 B. Tech., 9 Dual Degree, 5 M. Sc., 5 B.Sc., and 15 M. Tech. programmes. Presently, we have about 2700 students of which 13.3 % are in Ph.D programme, 16.53% in Masters (M. Sc. + M.Tech.), 17% in Dual-Degree and 42.66% in B.Tech Degree. There are more than 180 regular faculty members and 100 nonteaching staff of which 22 are officers. In addition, 34 adjunct faculty from reputed foreign and Indian institutes / organizations have delivered lectures in different courses in this academic year. In our institute, 95.61 % of B.Tech. / Dual Degree and 84.70 % of the M.Tech. students are from outside Odisha. About 72% of the faculty and 28% of the staff are non-Odia among which Telugu, Bengali and Hindi are the prominent language speakers. Women members comprise 24 % of PhD students, 20 % of B.Tech. / Dual Degree / M.Tech. students, 14 % of faculty and 12 % of the non-teaching staff.

The institute has currently identified the following nine thrust areas for making globally well recognized contributions: Energy; Micro and Nano Manufacturing and Sensors; Nanoscience and Technology; Augmented and Virtual reality; Climate Change and Extreme Events, Environment and Sustainability; Data Science and Machine Intelligence; Internet of Things and Nextgeneration Networks; Groundwater Exploration and Agriculture. These fields reflect the institute's commitment to impactful research and innovation on a global scale.

In the aforementioned thrust areas, during the last year, the faculty members and students of IIT Bhubaneswar contributed to creating new knowledge by publishing more than 500 research papers in reputed international and national journals, 29 book-chapters, 120 conference papers and editing of 1 book. In addition, more than 51 patents have been filed since the inception of the Institute, and 05 patents were granted during the last year. International and national Funding Agencies have granted more than 123 sponsored research and consultancy projects worth about Rs. 24 crore to the institute. In the financial year 2022-23, the institute was granted three patents filed in previous years.

Some of the notable industry-academia collaborations and R&D initiatives at IIT Bhubaneswar are:

- Pilot scale demonstration of solar-power driven microwave pyrolysis unit for upcycling conversion of end-of-life RO membranes material into biofuels.
- Classical and Quantum Error-Correcting Codes and Mathematics over Finite Fields for Smart Telecommunications.
- Indian Participation in the CMS Experiment at CERN: Maintenance, Operation and Upgradation
- "Design, Development, and Demonstration of a Centralized Protection and Monitoring (CPM) System within a Distribution Substation including DER" under NPP scheme of Ministry of Power (MoP) Govt of India

- Six projects under "IMPacting Research, Innovation and Technology (IMPRINT)."
- Virtual and Augmented Reality Center of Excellence (VARCoE): a unique center of its kind in the country that has sanctioned 9 R&D projects, pre-incubated 6 startups, and organized a number of workshops, a hackathon, an open challenge and a skilling programme.

The Institute is actively engaged in collaborative research with many reputed universities and research organizations from around the world. Some notable institutions are University of Western Ontario, London; University of Massachusetts, Dartmouth; University of North Texas, USA; University of Warwick, UK; State University of New York, University of Buffalo; Dr. Dash Foundation, USA; Shanghai Jiao Tong University, China; University of Hohenheim, Germany; University of Auckland, NTU, Korean Institute of Science and Technology, The Institute of Applied Mathematical Research, Karelian Research Centre of Russian Academy of Sciences (IAMR KarRC RAS), Russia; Nottingham Trent University, UK; Haptics Engineering of Technische Universitat Dresden, Germany; University of Agder, Norway

The Career Development Cell (CDC) at IIT Bhubaneswar plays a pivotal role in organizing placement and internship activities for our students. The Campus placements for the graduating batch of 2023 have been eventful in terms of a significant rise in new recruiters visiting IIT Bhubaneswar. In addition, majority of the previous recruiters have come back to recruit our students this year, indicating incredible confidence in the quality of our students. This year, the placement landscape has also witnessed a surge of enthusiasm from startups and fintech companies, all eager to tap into the talent pool at our institute. As of now, approximately 88% of B.Tech. and 89% of M.Tech. students have successfully secured placement offers. The average annual salary for B.Tech. graduates stands at around 18 lakhs, while M.Tech. graduates are securing an average annual package of 13 lakhs. What is even more exciting is that both groups have the opportunity to reach the pinnacle of success, with some students receiving impressive offers with a maximum annual package of around 55.65 lakhs. In addition to placements, our thirdyear students have also received lucrative internship offers from renowned industries. Many of these internships, especially in the fields of Computer Science and related disciplines, hold the potential for conversion into full-time job offers, offering our students a valuable stepping stone into their professional careers. This overall performance is a testament to industry-ready education and training at IIT Bhubaneswar, as well as the relentless dedication of our students.

Keeping pace with India's journey towards achieving the goals of Make in India and Self-Reliant India, IIT

Bhubaneswar is taking up different initiatives to promote entrepreneurship and Start-up culture among its students. The Entrepreneurship Cell of the Institute successfully organised the 9th Edition of E-Summit'23 in February 2023. With the theme of 'Sustainability: The Secret to Substantial Success', the E-Summit comprised of various conclaves, guest talks, competitions, workshops, startup expo, internship fair and investor drive.

The Entrepreneurship Cell of IIT Bhubaneswar has started a new initiative termed YESTA (Young Entrepreneur Skill and Talent Assessment test), a competition specifically designed for students from grades sixth to twelfth, aimed at fostering critical thinking abilities, problem-solving skills, and knowledge of basic science and mathematics, which are essential for an entrepreneur. The Technology Incubation Centre under Entrepreneurship Cell is also contributing to the technology development environment in the institute with financial assistance rendered to project proposals for prototype development, submitted by faculty and students.

The IIT Bhubaneswar Research and Entrepreneurship Park is a platform for nurturing and supporting innovative ideas and early-stage startups in various fields like technology, engineering, and social entrepreneurship. It offers various facilities and resources to start-ups, including office spaces, mentorship programmes, networking opportunities, legal and financial advice, and access to funding sources. It also organizes training programmes and workshops on various aspects of entrepreneurship. Last year, this Park started collaborations with various stakeholders, including industry partners, government agencies, and academic institutions. Some of the collaborating organizations worth mentioning are IIT Kanpur, HDFC Bank, Oil India, Mizoram University, Arthayan, Internshala, Indian Bank, Wadhwani Foundations etc. The IIT Bhubaneswar Research and Entrepreneurship Park promotes research and innovation by supporting the development of new products, services, and technologies. The Park received grants of more than Rs. 50 lakhs through various CSR and Govt. of India schemes during the last one year. Several important events were conducted during the last academic year including Startup Boost Camp, OCPRVR, Startup Interface, Ministry of Education-AICTE IDE Boot Camp, Outreach Programmes, Demo Day Pitch sessions, etc. At present, 21 start-ups are operating within its eco-system. I would like to mention here that the Board of Directors of the Research Park have submitted an ambitious infrastructure plan worth 63 crores to the ministry for approval. This fund will be used to build a permanent facility inside the IIT Bhubaneswar campus.

The Research Park has also taken an initiative to setup MSME Facilitation Cell. This will support idea hackathons, entrepreneurship courses for the students and faculty members among other related activities. A new Start-up Policy of the Institute has been framed during the year 2023. A visualization laboratory with more than 1.5 crore funding was established under the VARCoE during the last academic year. Hon'ble Minister of Education, Govt. of India inaugurated the laboratory.

During the last year, Continuing Education programme has conducted six International and National workshops and Conferences. Presently, 19 faculty members from the AICTE recognized engineering colleges are pursuing their Ph.D. programmes in the different disciplines at IIT Bhubaneswarunder the Quality Improvement Programme of the AICTE. Besides, CEP has successfully implemented the schemes of the Ministry of Education like the Scheme for Promotion of Academic and Research Collaboration (SPARC) and Global Initiative of Academic Network (GIAN). Under SPARC, 11 research projects are running with the active involvement of 25 international professors from 15 foreign universities, which is the largest number of sanctioned projects among the 2nd and 3rd generation IITs. Further, 35 short term courses have been conducted under GIAN Scheme with the support of renowned professors from foreign universities. A number of AICTE ATAL FDPs were also conducted during the last academic year. Moreover, a Memorandum of Understanding (MoU) was signed with Rama Devi Women's University (RDWU) for setting up a Center of Excellence Lab in Al and Robotics lab at RDWU.

The Alumni Association, which was formed in 2016, at present has 3486 alumni. The Alumni Association, IIT Bhubaneswar, in collaboration with IIT Bombay has conducted the product sale competition "Bizarro" and the marketing management competition "Marketing Magnate" among the students of IITs to enhance their marketing strategy capabilities. The Association started the PANIIT Mentorship Programme at IIT Bhubaneswar in March 2023, which helps students immensely to boost their academics. Besides, the Association has conducted the Alumni City meets in Bangalore and Mumbai to foster the Alumni Networking system.

For IIT Bhubaneswar, the wholesome growth of its students is of topmost priority, apart from the academic and professional excellence that they regularly evince. The Students' Gymkhana, with its 3 councils namely Social & Cultural, Science & Technology, and Sports & Games, is a central hub for the all-round development of students and is active throughout the year. The annual technomanagement fest *Wissenaire*, the socio-cultural fest *Alma Fiesta*, and the Entrepreneurship meet *E-Summit* have set a distinguished mark in the Eastern Zone. Many students from IIT Bhubaneswar have achieved laurels in these events.

At IIT Bhubaneswar, we value culture and heritage of the land we are built in. During the orientation programme, new entrants are taken to places of historical and monumental importance in Odisha to make them aware about the locality and the rich culture and heritage of this state.

Extra Academic Activities (EAA) which connect the students with the local community and bring a sense of social responsibility are compulsory part of course work for first year undergraduate students. These include observation of the International Yoga Day, Fit India Programme of Ministry of Education, blood donation drives in association with Capital Hospital Bhubaneswar, tree plantation drives inside and outside campus, e-waste collection drive etc. Some of these are conducted under the National Service Scheme (NSS). Recently, as a part of Swachh Bharat Abhiyan, the NSS volunteers from IIT Bhubaneswar cleaned up the foothill of Baunei Hills, an area rich in local history and a popular tourist spot. The NSS volunteers from IIT Bhubaneswar have also created social media campaigns on child labour, ill effects of tobacco and promotion of yoga.

Our Institute has adopted five nearby villages under the Unnat Bharat Abhiyan (UBA) programme, namely Aragul, Khudupur, Padanpur, Podapada and Kansapada. Our UBA team has been working on several aspects, such as the improvement of the quality of education, healthcare, environment protection and sanitation in the adopted villages. Some of the important programmes carried out by the UBA are: a survey to encourage the village youth to join different programmes in the Skill Development Institute-Bhubaneswar (SDI-B); the Institute has repaired the water supply connection in Kansapada, in January 2023; Efforts are being made to improve the water supply connection in the Podapada School as well; a one-day Health Camp was organized in Kansapada village; About 250 UBA Health cards were distributed among the villagers of the adopted villages since January 2023, which will facilitate their free consultation at our 'Sanjeevan Health Centre'; installed sanitary napkin vending machines in Argul, Podapada, Padanpur and Khudupur villages; UBA team also established a library in classroom..

The institute has established a CSR Cell to facilitate and provide a unique platform for corporate houses to implement their CSR projects for the communities in need. It aims to sensitize and encourage the IIT Bhubaneswar community to take responsibility for society and give back to society through various initiatives. We have collaborated with various NGOs, government bodies, and local communities to identify the most pressing issues and address them through sustainable solutions. Our focus areas include education, healthcare, environment, and livelihood. The newly formed CSR Cell, so far, has garnered more than Rs. 30 lakhs funding from companies such as Media.net Software service and Portescap India Private Limited etc. for various corporate social responsibility initiatives.

As per the guidelines of the Ministry of Education, IIT Bhubaneswar has celebrated Makar Sankranti by organising an Ek Bharat Shrestha Bharat event on 14th January 2023, depicting the culture and tradition of different states through various cultural programmes and competitions. In response to the great initiative of Ministry of Education, IIT Bhubaneswar participated in organising Yuva Sangam Phase-II.

In an endeavour to create an environment of teachinglearning of high order at IIT Bhubaneswar, faculty members who received the highest feedback have been honoured with teaching excellence awards and the Director's commendation award for outstanding services & research works. Several academic distinctions, honours, distinguished fellowships, associateship, coveted medals and awards have been bestowed on our faculty in recognition of their academic achievements during last year.

As a climate-responsible Institute aware of its surroundings and environment, IIT Bhubaneswar is setting up roof top and surface rainwater harvesting, waste management and wastewater recycling systems to make the campus zerodischarge. To promote the culture of plantation from the household level, a kitchen garden has been started in collaboration with the Campus Ladies Club Avni where 36 plots have been developed and handed over to interested residents. This initiative not only promotes a healthy way of life but also ensures the converting of the biodegradable household waste into manure in an effective way. All our buildings are GRIHA compliant.

This Institute and its entire activities could not have been achieved without the full participation and support of all stakeholders – our faculty, students and staff; agencies and industries sponsoring R&D and consultancy projects; professionals from other organizations and our alumni. The Institute is grateful to the Ministry of Education, Govt. of India for its continued and sustained encouragement and support.

Jai Hind!

Shreepad Karmalkar November 10, 2023

Board of Governors

Chairman



Dr. Rajendra Prasad Singh

Former Chairman & Managing Director, Power Grid Corporation & Independent Director, Azure Power Global Ltd.

Members



Prof. Shreepad Karmalkar Director, Indian Institute of Technology Bhubaneswar [w.e.f. 17.11.2022]



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Cdr. V.K. Jaitly, INS (Retd.) Chairman, C-cube Consultants, C-cube conducts Programs in Business Excellence New Delhi -110077



Prof. N. C. Sahoo Professor, School of Electrical Sciences, Indian Institute of Technology Bhubaneswar



Prof. Saroj Kumar Nayak Professor, School of Basic Sciences, Indian Institute of Technology Bhubaneswar

Secretary



Shri Debaraj Rath Registrar Offtg. Indian Institute of Technology Bhubaneswar

Finance Committee

Chairman

Dr. Rajendra Prasad Singh

Former Chairman & Managing Director, Power Grid Corporation & Independent Director, Azure Power Global Ltd.

Members

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Director, Indian Institute of Technology Bhubaneswar [w.e.f. 17.11.2022]

Dr. Rakesh Ranjan

Additional Secretary (TE) Ministry of Education, Shastri Bhawan, New Delhi - 110001

Ms. Leena Johri

AS&FA, Deptt. of Higher Education Ministry of Education Government of India Shastri Bhawan, New Delhi – 110001 [w.e.f. 10.09.2022 to 14.11.2022]

Prof. V. K. Tewari

Director, Indian Institute of Technology Kharagpur, Kharagpur - 721302 (West Bengal)

Secretary

Shri Debaraj Rath Registrar Offtg. Indian Institute of Technology Bhubaneswar Prof. V. K. Tewari

Director, Indian Institute of Technology Bhubaneswar [Till 16.11.2022]

Shri Sanjog Kapoor

JS & FA, Dept. of Higher Education, Ministry of Education, Shastri Bhawan, New Delhi - 110001 [w.e.f. 15.11.2022]

Ms. Darshana M. Dabral

JS&FA, Deptt. of Higher Education Ministry of Education Government of India Shastri Bhawan, New Delhi - 110001 [Till 09.09.2022]

Prof. Saroj Kumar Nayak Professor, School of Basic Sciences, Indian Institute of Technology Bhubaneswar

Building and Works Committee

Chairman

Prof. Shreepad Karmalkar Director, Indian Institute of Technology Bhubaneswar [w.e.f. 17.11.2022]

Members

Shri Bhakta Kabi Das Chief General Manager (P&C), IDCO, Bhubaneswar

Er. Tara Prasad Mishra Chief Engineer (DPI & Roads), Works Department, Govt. of Odisha, Bhubaneswar

Prof. N. C. Sahoo Head, School of Electrical Sciences, Indian Institute of Technology Bhubaneswar [Till 12.06.2022]

Prof. P. Dinakar Head, School of Infrastructure, Indian Institute of Technology Bhubaneswar [Till 12.06.2022]

Secretary

Shri Debaraj Rath Registrar Offtg. Indian Institute of Technology Bhubaneswar **Prof. V. K. Tewari** Director, Indian Institute of Technology Bhubaneswar [Till 16.11.2022]

Shri Sansar Pattanayak Former ADG, CPWD Bhubaneswar

Prof. Subhransu Ranjan Samantaray Head, School of Electrical Sciences, Indian Institute of Technology Bhubaneswar [w.e.f. 13.06.2022]

Prof. Sumanta Haldar Head, School of Infrastructure, Indian Institute of Technology Bhubaneswar [w.e.f. 13.06.2022]

Senate Members

S. N.	Name of the Member	Position	Place
1	Prof. Shreepad Karmalkar	Chairman (Ex-Officio)	Director, IIT Bhubaneswar
2	Prof. N.C. Sahoo	Member	Dean (Academic Affairs) & Professor, School of Electrical Sciences
3	Prof. Sujit Roy	Member	Dean (CE) & Professor, School of Basic Sciences
4	Prof. V. R. Pedireddi	Member	Dean (SRIC) & Professor, School of Basic Sciences
5	Prof. P. V. Satyam	Member	Dean (Students Affairs) & Professor, School of Basic Sciences
6	Prof. S. K. Nayak	Member	Dean (F&P) & Professor, School of Basic Sciences
7	Prof. Prasanta Kumar Sahu	Member	Dean (AA & IR) & Professor, School of Electrical Sciences
8	Prof. S. R. Samantaray	Member	Head, School of Electrical Sciences
9	Prof. Manas Mohan Mahapatra	Member	Head, School of Mechanical Sciences
10	Prof. Sumanta Haldar	Member	Head, School of Infrastructure
11	Dr. Animesh Mandal	Member	Head, School of Minerals, Metallurgical and Materials Engineering
12	Dr. Rajan Jha	Member	Head, School of Basic Sciences
13	Dr. Syed Hilal Farooq	Member	Head, School of Earth, Ocean and Climate Sciences
14	Dr. Dukhabandhu Sahoo	Member	Head, School of Humanities, Social Sciences and Management
15	Prof. S. K. Mohapatra	Member	Professor, School of Mechanical Sciences
16	Prof. T. V. S. Sekhar	Member	Professor, School of Basic Sciences
17	Prof. Brahma Deo	Member	MGM Chair Professor, School of MMME
18	Prof. Pravas Ranjan Sahu	Member	Professor, School of Electrical Sciences
19	Prof. Puspendu Bhunia	Member	Professor, School of Infrastructure
20	Prof. Akshay Kumar Ojha	Member	Professor, School of Basic Sciences
21	Dr. Mihir Kumar Pandit	Member	Associate Dean (F&P)
22	Dr. Shantanu Pal	Member	Associate Dean (UG, Academic Affairs)
23	Dr. Satyanarayan Panigrahi	Member	Associate Dean (PG, Academic Affairs)
24	Prof. Dinakar Pasala	Member	Associate Dean (R&D)
25	Prof. Rajesh Roshan Dash	Member	Associate Dean (CE)
26	Dr. Ashis Biswas	Member	Associate Dean (AA&IR)
27	Prof. C. N. Bhende	Member	Associate Head (EE), School of Electrical Sciences
28	Dr. Vijaya Sankara Rao Pasupoureddi	Member	Associate Head (ECE), School of Electrical Sciences
29	Prof. Monoranjan Satpathy	Member	Associate Head (ECE), School of Electrical Sciences
30	Dr. Niharika Mohapatra	Member	Associate Head (Physics), School of Basic Sciences
31	Dr. Snehasis Chowdhuri	Member	Associate Head (Chemistry), School of Basic Sciences
32	Dr. Sasmita Barik	Member	Associate Head (Mathematics), School of Basic Sciences
33	Dr. Vonoj V.	Member	Associate Professor, School of Earth, Ocean and Climate Sciences
34	Dr. Kishore Kumar Sahu	External Member	Associate Professor, School of Minerals, Metallurgical and Materials Engineering
35	Prof. Suddhasatwa Basu	Member	Director, IMMT Bhubaneswar
36	Prof. K. K. Nanda	Member	Director, Institute of Physics, Bhubaneswar
37	Prof. Harihar Hota	Member	Former Vice Chancellor of Sri Jagannath Sanskrit University, Puri
38	Dr. Mihir Kumar Das	Member	Chief Warden, Hostel
39	Dr. S. B. Karanki	Member	President, Students' Gymkhana
40	Dr. K. Samanta	Member	Chairman, JEE
41	Dr. Bibhuti Bhusan Sahoo	Member	Deputy Librarian
42	Mr. Lalit Mohan Behera	Student Invitee	Research Scholar, School of Basic Sciences
43	Mr. Nischal Soni	Student Invitee	Vice President, Gymkhana
44	Shri Debraj Rath	Secretary	Registrar (I/c)

Administration

Director

Prof. Sreepad Karmalkar (w.e.f 17.11.2022) Prof. Virendra Kumar Tewari (w.e.f. 02.04.2022 to 16.11.2022)

Deans

Dean (Academic Affairs)

Dr. Pravas Ranjan Sahu (upto 12.06.2022) Prof. Nirod Chandra Sahoo (w.e.f. 13.06.2022 to 13.03.2023) Email: deanac@iitbbs.ac.in

Dean (PGRP)

Prof. Chandrasekhar N. Bhende (w.e.f. 14.03.2023) Email: deanpgrp@iitbbs.ac.in

Associate Dean (PGRP)

Dr. Satyanarayan Panigrahi (w.e.f. 13.06.2022 to 13.03.2023)

Dean (Research & Development)

Prof. Sujit Roy (w.e.f. 04.07.2019 to 12.06.2022) Prof. V. R. Pedireddi (w.e.f 13.06.2022 to 13.03.2023) Prof. Dinakar Pasla (w.e.f. 14.03.2023) Email: deanrd@iitbbs.ac.in

Associate Dean (Research & Development)

Dr. Dinakar Pasla (w.e.f. 13.06.2022 to 13.03.2023)

Dean (Continuing Education)

Prof. Swarup Kumar Mahapatra (w.e.f. 05.09.2019 to 12.06.2022) Prof. Sujit Roy (w.e.f. 13.06.2022) Email: deance@iitbbs.ac.in

Dean (Alumni Affairs and International Relations)

Prof. Swarup Kumar Mahapatra (w.e.f. 18.05.2021 to 12.06.2022) Pro.f P K Sahu (w.e.f. 13.06.2022) Email: deanaa@iitbbs.ac.in

Dean (Faculty and Planning)

Prof. Saroj Kumar Nayak (upto13.03.2023) Dr. Mihir Kumar Pandit (w.e.f. 14.03.2023) Email: deanf@iitbbs.ac.in

Associate Dean (Faculty and Planning)

Dr. Mihir Kumar Pandit (w.e.f. 13.06.2022 to 13.03.2023)

Dean (UGP) Dr. Shantanu Pal (w.e.f. 14.03.2023) Email: deanugp@iitbbs.ac.in

Associate Dean (UGP)

Dr. Shantanu Pal (w.e.f. 13.06.2022 to 13.03.2023)

Dean (Student Affairs)

Prof. P. V. Satyam (w.e.f. 12.10.2021) Prof. R. R. Dash (w.e.f. 14.03.2023) Email: deansa@iitbbs.ac.in

Associate Dean (Continuing Education)

Dr. R. R. Dash (w.e.f. 13.06.2022 to 13.03.2023)

Associate Dean (Alumni Affairs and International Relations) Dr. Ashish Biswas (w.e.f. 13.06.2022)

12

Head of the Schools

School of Basic Sciences

Head of the School Dr. T. V. S. Sekhar (w.e.f. 07.11.2019 to 12.06.2022) Dr. Rajan Jha (w.e.f.13.06.2022) Email: hos.sbs@iitbbs.ac.in

Associate Head (Physics) Dr. Niharika Mohapatra (w.e.f.13.06.2022)

Associate Head (Chemistry) Dr. Snehasis Chowdhuri (w.e.f.13.06.2022)

Associate Head (Mathematics) Dr. Sasmita Barik (w.e.f.13.06.2022)

School of Earth, Ocean and Climate Sciences

Dr. Syed Hilal Farooq (w.e.f. 26.05.2021) Email: hos.seoc@iitbbs.ac.in

School of Humanities, Social Sciences and Management

Prof. Swarup Kumar Mahapatra (w.e.f. 05.09.2019 to 12.06.2022) Dr. Dukhabandhu Sahoo (w.e.f. 13.06.2022) Email: hos.hss@iitbbs.ac.in

School of Electrical Sciences

Head of the School

Prof. N. C. Sahoo (upto 12.06.2022) Prof. S R Samantaray(w.e.f.13.06.2022) Email: hos.ses@iitbbs.ac.in

Associate Head (Electrical Engineering) Dr. Sankarsan Mohapatra (w.e.f. 31.03.2023)

Associate Head (Computer Science Engineering) Dr. Debi Prosad Dogra (w.e.f. 31.03.2023)

Associate Head (Electronics & Communication Engineering) Dr. Pasupureddi Vijaya Sankara Rao (w.e.f.13.06.2022)

School of Infrastructure

Dr. Dinakar Pasla (w.e.f. 01.03.2020 to 12.06.2022) Dr. Sumant haldar (w.e.f. 13.06.2022) Email: hos.sif@iitbbs.ac.in

School of Mechanical Sciences

Dr. Mihir Kumar Pandit (w.e.f. 01.07.2019 to 12.06.2022) Prof. Manas Mohan Mahapatra (w.e.f. 13.06.2022) Email: hos.sms@iitbbs.ac.in

School of Minerals, Metallurgical and Materials Engineering

Prof. P. V. Satyam (w.e.f. 01.03.2020 to 12.06.2022) Dr. Animesh mandal (w.e.f.13.06.2022) Email: hos.smmme@iitbbs.ac.in

Officers

Shri Debaraj Rath Registrar (Offtg.) (w.e.f. 24.05.2021 to 08.05.2023) Email: registrar@@iitbbs.ac.in

Shri Debaraj Rath Joint Registrar -SG Email: jtregistrar@iitbbs.ac.in

Shri Anuj Pradhan Superintending Engineer (Civil) Email: anujpradhan@iitbbs.ac.in Email: se.civil@iitbbs.ac.in

Dr. Bibhuti Bhusan Sahoo Deputy Librarian Email: dylibrarian@iitbbs.ac.in

Shri Sanku Das System Engineer Email: sanku@iitbbs.ac.in

Shri Manas Kumar Behera Assistant Registrar (upto 11.07.2021) Deputy Registrar (w.e.f.11.05.2022) Email: dr.rd@iitbbs.ac.in

Dr. Sailendra Narayan Routray Assistant Registrar Email: ar.sp@iitbbs.ac.in

Shri Pradeep Kumar Sahoo Assistant Registrar (w.e.f. 12.07.2021) Deputy Registrar (w.e.f. 20.01.2023) Email: dr.acad@iitbbs.ac.in

Shri Santosh Kumar Sahoo Deputy Registrar (w.e.f. 28.03.2023) Email: dr.est@iitbbs.ac.in **Shri Ankit Paramanand Bagde** Assistant Registrar Email: ar.fa@iitbbs.ac.in

Shri Rabi Kumar Patnaik CDPO Email: tpo.cdc@iitbbs.ac.in

Dr. Sambhunath Sahoo Assistant Librarian Email: sambhu@iitbbs.ac.in

Shri Prasanna Kumar Das OSD (Internal Audit) Email: prasanna@iitbbs.ac.in

Shri Amulya Kumar Ray OSD (Establishment) (w.e.f. 22.07.2021) Email: osd.est@iitbbs.ac.in

Shri Chandra Vadde Programmer Software Engineer (w.e.f. 05.05.2022) Email: chandra@iitbbs.ac.in

Shri Biswaranjan Pradhan Assistant Executive Engineer (Electrical) Executive Engineer (Electrical) (w.e.f. 11.05.2022) Email: biswaranjan@iitbbs.ac.in

Dr. Mansoor Ahmed Khan Senior Medical Officer Email: mansoor@iitbbs.ac.in, smo@ iitbbs.ac.in **Dr. Naba Kishore Patnaik** Medical Officer Email: nkpatnaik@iitbbs.ac.in

Dr. Rachana Patel Medical Officer (w.e.f. 23.11.2021 to 29.07.2022) Email: patelrachana@iitbbs.ac.in

Dr. Aswini Kumar Das Medical Officer (w.e.f. 10.03.2022 to) Email: aswinidas@iitbbs.ac.in

Dr. Shyama Prasad Mishra Medical Officer (w.e.f. 21.03.2022) Email: shyama@iitbbs.ac.in

Dr. Abhimanyu Raju S R Medical Ofiicer (Resident) (w.e.f. 26.10.2022) Email: abhimanyuraju@iitbbs.ac.in

Dr. Rishi Mishra Medical Ofiicer (Resident) (w.e.f. 29.11.2022) Email: rishimishra@iitbbs.ac.in

Dr. Anu Bansal Doctor (w.e.f. 22.11.2022) Email: anubansal@iitbbs.ac.in

Dr. Gagandeep Kaur Makkar Student Counsellor Email: gagandeep@iitbbs.ac.in

Shri Abhishek Dey Network Administrator (w.e.f. 03.03.2023) Email: abhishekdey@iitbbs.ac.in

PIC, Chairperson, Co-Coordinators, Warden, and Gymkhana

Name, School	Position	Period
Professor-In-Charge		
Dr. Gaurav Bartarya School of Mechanical Sciences	PIC - E -Cell	w.e.f. 17.09.2018 to till date
Dr. Arun Ku. Pradhan School of Mechanical Sciences	PIC - Training & Placement [Career Development Cell]	w.e.f. 01.07.2016 to till date
Dr. Mihir Kumar Pandit School of Mechanical Sciences	PIC - Guest House	w.e.f. 01.07.2016 to 11.05.2023.
Prof. V. R. Pedireddi School of Basic Sciences	PIC - Permanent Campus	w.e.f. 18.07.2015 to till date
Dr. Rajan Jha School of Basic Sciences	PIC – Security	w.e.f. 04.01.2022 to till date
Dr. Siddhartha S. Borkotoky School of Electrical Sciences	PIC – [Network & Security]	w.e.f. 01.07.2018 to till date
Prof. R. R. Dash School of Infrastructure	PIC - Transport Services	w.e.f. 01.07.2016 to 11.05.2023
Dr. Tarakanta Nayak School of Basic Sciences	PIC - Horticulture (Residence)	w.e.f. 18.12.2020 to till date
Dr. Debi Prosad Dogra School of Electrical Sciences	PIC – Horticulture (Academic)	w.e.f. 15.11.2021 to 11.05.2023
Dr. Raj Kumar Singh School of Earth, Ocean Climate Sciences	PIC - Counselling Service	w.e.f. 15.11.2021 to till date
Dr. Satyanarayan Panigrahi School of Mechanical Sciences	PIC – IPR	w.e.f. 06.11.2012 to 11.05.2023
Dr. C. N. Bhende School of Electrical Sciences	PIC - Institute Seminar	w.e.f. 03.04.2018 to 30.03.2023
Dr. Vijayakrishna Kari School of Basic Sciences	PIC - Institute Seminar	w.e.f. 31.03.2023 to till date
Dr. Niladri Bihari Puhan School of Electrical Sciences	PIC - Web Services	w.e.f. 26.07.2019 to 11.05.2023
Dr. Chandrasekhar Perumalla School of Electrical Sciences	PIC - Electrical works	w.e.f. 07.06.2019 to till date
Prof. Sumanta Haldar School of Infrastructure	PIC - Civil works	w.e.f 01.03.2020 to 28.02.2023
Dr. Srinivas Pinisetty School of Electrical Sciences	PIC - ERP	w.e.f. 11.04.2018 to 11.05.2023
Prof. Prasant Sahu School of Electrical Sciences	PIC - Centre of Excellence of Augmented Reality and Virtual Reality	w.e.f. 01.07.2019
Dr. Sunil Kumar Prajapati School of Basic Sciences	PIC - Raj Bhasha Ekak	w.e.f. 28.10.2021 to 11.05.2023
Dr. Debi Prosad Dogra School of Electrical Sciences	PIC- Start up Center	w.e.f. 21.03.2022 to till date
Dr. Debasis Basu School of Infrastructure	PIC - Examination	w.e.f 24.01.2022 to till date.
Prof. Manas M. Mahapatra School of Mechanical Sciences	PIC - Time Table	w.e.f. 07.07.2017to 03.07.2022
Dr. Sankarsan Mohapatro School of Electrical Sciences	PIC - Time Table	04.07.2022 to till date

Name, School	Position	Period
Dr. Raj Kumar Guduru School of Humanities, Social Sciences and Management	PIC- Newsletter Committee	w.e.f. 11.04.2018 to 11.05.2023
Chairman/ Chairperson		
Prof. P. V. Satyam School of Basic Sciences	Chairman - Institute Purchase Committee	w.e.f. 12.01.2021 to till date
Dr. Barathram Ramkumar School of Electrical Sciences	Chairman – CITSC	w.e.f. 05.09.2019 to till date
Prof. P. R. Sahu School of Electrical Sciences	Chairman - CPMC	w.e.f. 01.07.2016 to till date
Prof. R. R. Dash School of Infrastructure	Chairman - Central Library	w.e.f. 01.07.2016 to 11.05.2023
Prof. Manas M. Mahapatra School of Mechanical Sciences	Chairman - CIF (Central Instrumentation Facility)	w.e.f. 01.07.2016 to till date
Dr. Animesh Mondal School of Minerals Metallurgical and Materials Engineering	Co- Chairman - CIF (Central Instrumentation Facility)	w.e.f. 01.07.2016 to till date
Dr. C. Bhamidipati School of Basic Sciences	Chairman - JEE	w.e.f. 01.08.2016 to 01.09.2022
Dr. Koushik Samanta School of Basic Sciences	Chairman - JEE	w.e.f. 02.09.2022 to 31.08.2023
Dr. Rajan Jha School of Basic Sciences	Chairman - JAM	w.e.f. 01.08.2016 to 11.05.2023
Prof. S. R. Samantaray School of Electrical Sciences	Chairman - GATE	w.e.f. 01.08.2016 to 11.05.2023
Dr. Debalina Ghosh School of Electrical Sciences	Chairperson – Internal Complaint Committee (ICC)	w.e.f. 21.12.2020
Dr. Sasmita Barik School of Basic Sciences	Chairperson – Women Welfare Committee (WWC)	w.e.f. 02.03.2021 to 11.05.2023
Dr. Sasmita Barik School of Basic Sciences	Chairman – House Allotment Committee	w.e.f.12.05.2021 to 11.05.2023
Prof. S. K. Mahapatra School of Mechanical Sciences	Chairperson – Internal committee to Monitor the HVAC related works in Phase -2 works of the Institute.	w.e.f. 11.01.2021 to till date
Dr. Asish Biswas School of Basic Sciences	Chairman -Technology Market Committee	w.e.f. 12.10.2021
Dr. Soobhankar Pati School of Minerals Metallurgical and Materials Engineering	Coordinator - Alumni Affairs & International Relations	w.e.f. 07.10.2015 to till date
Dr. Sasidhar Kondaraju School of Mechanical Sciences	Coordinator -NSS Program Officer	w.e.f. 26.05.2020 to 31.05.2023
Dr. Devesh Punera School of Infrastructure	Coordinator - EAA	w.e.f. 03.12.2021 to till date
Dr. Bankim Chandra Mandal School of Basic Sciences	Co- Coordinator- EAA	w.e.f. 08.04.2019
Dr. Seema Bahinipati School of Basic Sciences	Co- Coordinator, UBA Programs	w.e.f. 11.04.2018 to till date
Dr. Tarakanta Nayak School of Basic Sciences	Co- Coordinator, UBA Programs	w.e.f. 11.04.2018 to till date
Prof. S. K. Mohapatra School of Mechanical Sciences	Coordinator - QIP	w.e.f. 29.08.2018 to 19.07.2022

Name, School	Position	Period
Prof. Sujit Roy School of Basic Sciences	Coordinator – QIP	w.e.f. 20.07.2022 to till date
Prof. P. R. Sahu School of Electrical Sciences	Chief Vigilance Officer	w.e.f. 29.08.2018 to till date
Dr. Padmalochan Bera School of Electrical Sciences	Chief Information Security Officer (CISO)	w.e.f. 13.09.2022
Dr. Soobhankar Pati School of Minerals Metallurgical and Materials Engineering	PMRF Co-ordinator	w.e.f.01.03.2023
Warden		
Dr. Mihir Kumar Das School of Mechanical Sciences	Chief Warden	w.e.f. 20.12.2021
Dr. Seema Bahinipati School of Basic Sciences	Warden of Ganga Hall of Residence	w.e.f. 15.11.2021
Dr. Manaswini Behera School of Infrastructure	Warden of Suvarnarekha Hall of Residence	w.e.f. 15.11.2021
Dr. Srikant Gollapudi School of Minerals Metallurgical and Materials Engineering	Warden of Brahmaputra Hall of Residence	w.e.f. 15.11.2021
Dr. Arindam Sarkar School of Infrastructure	Warden of Mahanadi Hall of Residence	w.e.f. 15.11.2021
Dr. Suvradip Mullick School of Mechanical Sciences	Warden of Rushikulya Hall of Residence	w.e.f. 15.11.2021
Dr. Kiranmayee Landu School of Earth, Ocean Climate Sciences	Assistant Warden of Ganga Hall of Residence	w.e.f. 15.11.2021
Dr. Sunil Kumar Prajapati School of Basic Sciences	Assistant Warden of Brahmaputra Hall of Residence	w.e.f. 15.11.2021
Dr. Joy Chandra Mukherjee School of Electrical Sciences	Assistant Warden of Mahanadi Hall of Residence	w.e.f. 15.11.2021
Dr. Anoop Thomas School of Electrical Sciences	Assistant Warden of Rushikulya Hall of Residence	w.e.f. 15.11.2021
	Gymkhana	
Dr. Srinivas Bhaskar Karanki School of Electrical Sciences	President, Gymkhana	w.e.f. 15.11.2021
Dr. Souma Prakash Dash School of Electrical Sciences	Advisor, Science & Technology Activities of Student Gymkhana	w.e.f. 26.11.2021
Dr. Olive Ray School of Electrical Sciences	Advisor, Sports & Game Activities of Student Gymkhana	w.e.f. 26.07.2019 to 06.07.2022
Dr. Anoop Thomas School of Electrical Sciences	Advisor, Sports & Game Activities of Student Gymkhana	w.e.f. 07.07.2022
Dr. Nijwam Wary School of Electrical Sciences	Treasurer - Gymkhana	w.e.f. 18.06.2021
Dr. Kodanda Ram Mangipudi School of Minerals Metallurgical and Materials Engineering	Advisor -(Socio-Cultural)	w.e.f. 26.11.2021
Dr. Mihir Kumar Pandit School of Mechanical Sciences	Advisor, Purchase Committee of Student Gymkhana	w.e.f. 14.07.2016
Dr. V. Pandu Ranga School of Mechanical Sciences	Advisor, Finance Committee of Student Gymkhana	w.e.f. 14.07.2016

Staff

Director's Office

Shri Giresh Kumar Pitta [Section Officer] Shri Ramseh Kumar Panda [Jr. Assistant] Shri Ramesh Chandra Biswal [Driver]

Registrar's Office

Shri Pradeep Kumar Pattanaik [Private Secretary]

R&D Section

Shri Anirudha Bai [Section Officer] Shri Una Sujit [Jr. Superintendent] (w.e.f. 10.12.2020) Shri Abhishek Kachchap [Jr. Superintendent]

Central Dak / Recruitment

Ms. Souravi Behera [Senior Assistant]

Academic Section

Shri Satyajit Sarangi [Section Officer] Shri Abhimanyu Mahal [Section Officer] Smt. Nibedita Patnaik [Section Officer] Shri Gouri Shankar Mishra [Senior Assistant] Shri Bijay Kumar Sahoo [Private Secretary] (w.e.f. 19.07.2021)

Finance and Account Section

Shri Ajit Kumar Sahoo [Section Officer] Shri Raghunath Behera [Accounts Superintendent] Shri Guru Parsad Sahoo [Jr. Accounts Officer] Shri Vivek Kedia [Jr. Accounts Officer]

Dean Faculty & Planning Office

Shri Satyabrota Ghosh [Section Officer]

Store & Purchase Section

Shri Rajsekhar Bendi [Jr. Superintendent] (w.e.f. 18.03.2021 to 17.03.2024 on deputation) Shri Sambit Ranjan Mohanty [Section Officer] Smt. Suhana Parween [Accounts Superintendent] Shri Vikram Alagandula [Jr. Assistant] (w.e.f. 04.01.2022)

Health and Sanitary Unit

Shri Pradip Kumar Poddar [Public Health Inspector]

Medical Unit

Ms. Swarnalata Swain [Matron] Shri Srinibash Panigrahy [Pharmacist] Shri D. Kannan [Pharmacist]

Establishment

Ms. Jignyasha Behera [Section Officer] Ms. Smruti Smaranika Kumar [Senior Assistant] Shri Arup Kumar Pandab [Senior Assistant]

Dean Continuing Education Office

Shri Himansu Bhusan Sahoo [Jr. Assistant]

Central Library

Ms. Sangita Sahu [Library Information Superintendent] Shri Dillip Kumar Parida [Sr. Library Information Assistant]

Security Unit

Shri Tapan Kumar Mohapatra [Assistant Security Officer]

Engineering Cell

Shri Dipti Ranjan Pattanaik [Assistant Engineer (Civil)] Shri Abhisek Das [Assistant Engineer (Electrical)] Shri Gajendra Behera [Assistant Engineer (Electrical)] Shri Rupesh Kumar Pradhan [Assistant Engineer (Civil)]

CITSC

Shri Rabinson Behera [Associate Network Administrator] Shri Tileswar Mahto [Technician (System Administration)] Shri Ranjith Rao [Technician (Network Administration)]

School of Basic Sciences

Dr. Nihar Ranjan Panda [Technical Superintendent] Shri Sushanta Sahoo [Jr. Technical Superintendent] Shri Tarapada De [Jr. Technical Superintendent] Shri Samir Kumar Jena [Lab. Assistant] Shri Sukesh Kumar Mishra [Jr. Laboratory Assistant] Shri Naresh Koppula [Jr. Laboratory Assistant] Shri Marshal Tudu [Senior Assistant]

School of Minerals, Metallurgical and Materials Engineering

Shri Ramakrishna Pantangi [Jr. Technical Superintendent] Shri Sonu Kumar Goyal [Jr. Laboratory Assistant]

Student Gymkhana

Ms. Sunita Verma [Physical Training Instructor] Shri Biswajit Pegu [Physical Training Instructor]

Horticulture

Shri Kamireddy Visweswara Reddy [Horticulturist]

School of Earth,Ocean and Climate Sciences

Shri Pratap Gudisenapali [Technical Superintendent]

School of Electrical Sciences

Ms. Madhusmita Divyadarsini Mohapatra [Technical Superintendent] Shri Santosh Kumar Sahoo [Technical Superintendent] Shri Bikram Ranjan Behera [Technician] Shri Dillip Kumar Biswal [Technician] Shri Birata Keshari Nanda [Technician] Shri Brajamohan Mohapatra [Jr. Technical Superintendent] Shri Raimohan Behera [Technician] Sk Tajuddin Ahmed [Jr. Technician] Shri Mrinal Datta [Jr. Technician]

Central Instrumentation Facility

Shri Vidya Sagar Vajja [Jr. Technical Superintendent]

School of Infrastructure

Ms. Supriyarani Mohanty [Technical Superintendent] Shri Samir Kumar Sethi [Technical Superintendent] Ms. Akasmika Sarangi [Technician] Shri Soubhagya Kumar Behera [Jr. Technician] Shri Amiya Chandra Singh [Jr. Technician]

School of Mechanical Sciences

Shri Aloka Kumar Nayak [Technical Superintendent] Shri Malaya Kumar Routray [Technical Superintendent] Shri Sidhartha Biswal [Senior Assistant] Shri Dillip Kumar Sahoo [Technician] Shri Sunil Kumar Pradhan [Technician] Shri Bivudata Mohanty [Jr. Technician] Shri Purnendu Kumar Bisoi [Jr. Technician]

About **IIT Bhubaneswar**

Indian Institute of Technology Bhubaneswar is established by the government of India in 2008 under The Institutes of Technology Act 1961 with Amendments up to 2012. The Act was passed in the Lok Sabha on 24th March 2011 and by the Rajya Sabha on 30 April 2012. IIT Bhubaneswar became an Institute of National Importance from 29 June 2012 with notification of Amendment in the Institutes of Technology Act, 1961 by the Ministry of Education; (Department of Higher Education) Government of India published in the Gazette of India dated 2 July 2012. The Institute started functioning from the campus of IIT Kharagpur on 22nd July 2008 and shifted its operation to the city of Bhubaneswar on 22nd July 2009. The Institute has started all academic operations from the permanent campus at Argul from academic session 2015-16.

At present there are 7 full-fledged schools (Basic Sciences; Electrical Sciences; Earth, Ocean and Climate Sciences; Humanities, Social Sciences and Management; Infrastructure; Mechanical Sciences & Minerals, Metallurgical and Materials Engineering). The Institute provides well-qualified faculty, state-of-the art infrastructure facilities like lecture halls, central library, laboratory, computing facilities, central workshop, startup centre (40,000 sq. ft.), Entrepreneur Park, hostels at global standards, auditorium, play-fields among other amenities etc. The institute is committed to providing holistic education aimed at producing tomorrow's leaders, nurturing personality, creativity, innovative mind-set and capability be it in Science or Technology or Management or other domains of human excellence. It provides ample opportunity for a young mind to take any path and excel apart from providing the opportunity to research in a chosen area. Institute is also committed to creating a wellness environment, including in green, clean and healthy environment, quality education, efficient and effective governance, effective health services, security, equality and enlightenment.

The Institute has adopted the concept of Schools rather than Departments for promoting inter-disciplinary research. At present, seven schools are offering an academic programme. The Institute offers six Nos (Computer Science, Civil, Electrical, ECE, Mechanical Engineering, Metallurgical and Materials Engineering). of B.Tech., 9 Nos. of Dual Degree Programmes, 5 Nos. of M.Sc., 14 Nos. of M.Tech Programmes and Ph.D Programme in its 7 Schools. The current student strength is 2814 (B.Tech.



– 1310, Dual-Degree – 514, M.Tech. – 367, M.Sc – 216, Ph.D – 407). The Institute has a spectrum of 177 full-time faculty members, 25 regular officers and other supporting staff. In the past 12 years the Institute conferred degrees to 3486 students (B.Tech., M.Tech., Ph.D., MSc. etc.)

To further facilitate joint and collaborative research, the institute is very actively engaged with many reputed universities and research organizations across the world like the University of Western Ontario (Canada), University of Massachusetts Dartmouth (USA), Warwick Manufacturing Group of the University of Warwick (UK), and University of Hohenheim (Germany), to name a few. The institute has Joint PhD Programme with University of Auckland in which both of the institutes will be taking students to foster academic exchange and cooperation between the two institutions

During the last 12 years, the Institute's faculty members and students have contributed to creating knowledge by publishing more than 5206 original research papers in reputed national and international Journals and Conferences. Students also won several awards in conferences and competitions.

The Research and Development activities are increasing with time. The total value of projects received by the Institute so far (2008-23) is around 187 crores through 339 sponsored research and 433 consultancy projects. The Institute is also actively participating in the national R&D missions namely: "IMPacting Research Innovation and Technology (IMPRINT)". Eleven (11) major research projects are running under Continuing Education with the support of the Scheme for Promotion of Academic and Research Collaboration (SPARC), MoE, Govt. of India. Going by the spirit of Government of India in instituting the Unnat Bharat Abhiyan, the institute took up several outreach activities including adopting 6 villages for helping in development.

The Institute has been ranked in various international and national agency rankings like Times Higher Education (THE), QS World University Rankings, NIRF and many other ranking agencies.

Vision and Mission

Indian Institute of Technology Bhubaneswar inherits the brand name IIT. This fact itself charges the Institute not only to be worthy of its inheritance but also to be distinctive and distinguished on its own by scripting a path towards novelties.

Presented below are the statements for Vision, Mission, Goals & Strategies (to achieve the Goals) and the Core Values of IIT Bhubaneswar.

Vision

"IIT Bhubaneswar will be globally well recognized for creating outstanding graduates and new knowledge."



- To shape ourselves into a learning community, where we work, listen and respect each other.
- To encourage and facilitate faculty, researchers and students to work synergistically across discipline boundaries.
- To infuse a sense of excitement in students in innovation & invention, design & creation and entrepreneurship.
- To develop and pursue curricula those are dynamic, flexible and holistically designed to facilitate creativity and cognitive thinking.
- To strive for productive partnerships between the industry and the Institute.

Goals and Strategies

Promoting globally competitive academic programs and ambiance that support intellectual growth and skill acquisition

- Promote skills to critically analyse and the competency to effectively synthesize and apply new knowledge in curriculum development and delivery.
- Address the changing needs of the region, state, nation and world in the learning process.
- Create a diverse, fully-engaged, learner-centric campus environment.
- Strengthen the national and international competitiveness of the students by facilitating international internships, industrial project opportunities, student exchange and study abroad participation.
- Put equal emphasis on discovery science and solution science.
- Bring research into classrooms.

Expanding world-class interdisciplinary research and scholarly endeavors.

- Promote distinctive research programs that address real-life as well as futuristic issues.
- Strengthen integrated and synergistic interdisciplinary research within and across the various Schools.
- Broaden and strengthen the Institute's research base and support infrastructure by engaging with partners from all sectors of the economy.
- Create a talent pool of world-class faculty members, postdoctoral fellows, doctoral and post-graduate students.
- Create an excellent support staff structure and regularly upgrade their competencies.
- Evolve itself into a repository of intellectual properties and prototypes on a globally competitive basis.

Strengthening and providing support in sustaining a healthy society by improving the quality of life through the application of technology.

- Establish an institutional structure to facilitate and promote community engagement and societal enterprise.
- Include community engagements into the Institute's promotional guidelines.
- Encourage and reward faculty and students' efforts in community development. Acknowledge efforts and gains in official statements and transcripts.

Establishing a strong and sustainable economic base for the Institute.

- Encourage and facilitate sponsored projects, consultancy and technology transfer for creating a sound corpus.
- Utilize brand value for attracting endowments for sponsored chairs and scholarships.
- Support entrepreneurial endeavours especially in commercializing emerging technologies evolved out of the Institute labs through a public-private partnership.

Building up a healthy and robust IIT Bhubaneswar family.

- Promote and sustain a positive working environment and maintain a significantly improved service quality.
- Improve staff support through expanding professional development opportunities.
- Perform Institute's corporate social responsibilities with utmost sincerity.
- Nourish and sustain vibrant co-and extra-curricular activities.
- Create an ambiance for bonding through equity, trust and mutual respect.

Core Values

- Respecting students as budding engineers and scientists embarking on a journey towards innovation and invention.
- Nurturing freedom of thought and expression and encouraging a sense of inquiry.
- Empowering each person to rise to his/her full potential Respecting the opinions and rights of others.

Campus Infrastructure

Government of India sanctioned an Indian Institute of Technology in Odisha in 2008. Accordingly, the State Government provided 943 acres of land free of cost to IIT at Argul (25 km away from the city of Bhubaneswar on the foot hills of Barunei Hills) to set up the Infrastructure of IIT Bhubaneswar. Ministry of Education (Formerly MHRD) sanctioned an overall budget of Rs. 1260.00 Cr in two phases (Phase 1: Rs. 410 & Phase 2: 850 cr) to develop the infrastructure for 5000 students with fully residential facilities.

With the objective of producing a conducive campus ambiance; meticulous planning, architecting and execution was under taken. The Master Plan of the Campus was designed to accommodate 10,000 students, 1000 faculty and 2100 support staff and includes a Research Park to replicate the facilities of a well-established 1st Generation IITs like IIT Kharagpur.

Under the Phase-1 development, 1.10 lac sq.m. was built for 1000 students, 120 faculty and staff. The Institute moved to its permanent campus at Argul in phases beginning from Jul'2015 and fully operated from Jul'2018 onwards. Phase 1 development included an Administrative building, 4 School buildings, 2 Nos. of hostels and 120 Quarters etc.

Under the Phase - 2 developments 2.02 lac sq. m. of area

is being built and includes a central research facility, 3 new Hostels, 3 new school buildings, Extensions of all existing 4 school buildings, lecture hall complex, 242 quarters, Health center, 1500 seater Auditorium etc. The Phase-2 construction has also achieved 90% progress and many buildings have been occupied barring few infrastructures for e.g. Lecture Hall Complex, Auditorium and Playfields etc. The balance infrastructure are expected to be completed by FY 2023-24 and will be able to provide the best of class infrastructure to the brightest minds of India to pursue research in high end technologies.

After complete development of Infrastructure after Phase 2, academic & research, activities can be carried out for 5000 students. It is also a matter of record that the Institute has been able to develop 30% additional Infrastructure without crossing the sanctioned amount.

In the course of execution, IIT Bhubaneswar adopted several green campus initiatives to a make a campus habitable by developing roof top rainwater and surface water harvesting infrastructure, GRIHA compliance for building and planting more than 45,000 trees etc.

The outcome as it starts today is a world-class wellness and green campus with a positive ambiance.



Phase-I Buildings



800 Seater Boys' Hostel



200 Seater Girls' Hostel



Staff Community Centre

Guest House



Type-D1&D2 Quarter



School of Mechanical Sciences



Type-F Quarter



School of Infrastructure

Phase-II Buildings



Hostels



Quarters



Sanjeevan Health centre



Auditorium



SAC Building



Quarters



Director's Bungalow



LHC-3



School of Earth Ocean and climate Sciences



School of Humanities Social Sciences & Management



Play Field



Labs



Play Field



Library

Sanjeevan Health Centre

Sanjeevan Health Centre, IIT Bhubaneswar provides health services round the clock to all its campsites. The Health Centre is equipped with 24X7 presence of Doctors and Nurses, all Lifesaving Drugs, Oxygen Cylinders, Nebulizer machines, ECG machine, Glucometer, Multipara Monitors and 24 hours Pharmacy and Ambulance Services.



School of Infrastructure

Eco-Friendly Campus Initiatives

Green Campus Initiatives:

IIT Bhubaneswar adopted the following green campus initiatives to make the campus eco-friendly:

IIT Bhubaneswar believes what Ralph Waldo Emerson says, "The creation of a thousand forests is in one acorn." Acorn is a symbol of prosperity, youthfulness, power and spiritual growth. Symbolically, it means that a small effort of planting a tree can go a long way in protecting nature and mother earth which you all will agree is the burning need of our times.

IIT Bhubaneswar is highly committed towards promoting the green belt and hence takes humongous steps towards making the campus and nearby places green. IIT Bhubaneswar has created and maintains outstanding landscapes and greenery in the campus. Plantation of trees also helps create a wellness environment important for the campsites to enjoy the working and residential space. In addition to 45,000 plants planted in the last couple of years. This year more than 1500 plants have already been planted. The exotic and indigenous evergreen and deciduous flowering trees and plants such as Bauhinia, Eugenia, Foxtail palm, Neem, Arjuna, Seasonal flower plants, Fruit plants etc. were some of the varieties chosen to be planted to create the healthy echo-system for attracting the exotic and migratory birds. Every effort was made to restore the damage that occurred due to Fani, Amphan Cyclone's. Along with the plantation of new

plants, the old ones were restored and I am happy to share that most of the trees and plants survived. The massive task related to the teak plantation was completed along the boundary wall of our campus. These are some of the few highlights in moving towards the promotion of green campus.

Cycle Friendly Campus Initiative:

IIT Bhubaneswar banned power vehicle use by students and incorporated the "Cycling Culture" for promoting the health benefits of students, faculty, staff and the community and for controlling environmental risk factors. The institute has initiated the Bicycle Infrastructure Development Plan for creating "Cycle Friendly Campus" by providing sustainable and convenient tree-lined cycle paths for riding a bicycle between the schools and hostels, and for constructing cycle parking infrastructure in each of the buildings.

Water-Harvesting Initiative:

IIT Bhubaneswar has initiated building up of rooftop rainwater harvesting and surface rainwater harvesting infrastructure, and setting up a waste management system and wastewater recycling plant, to make the campus zerodischarge.

Eco-friendly Waste Disposal:

IIT Bhubaneswar deployed dustbins with biodegradable and non-biodegradable categories.



IIT Bhubaneswar is Ragging Free

The Institute strongly adheres to the anti-ragging policy and implements it through the true spirit of action. The institute takes several timely actions including close monitoring to ensure the system is in place. Also the administration, concerned faculty and staff conduct several meetings with the newly joined fresher's as well as senior students appraising them about the policy of the institute and counselling them about the good practices of interaction with new students and development of brotherhood towards personality building. The Dean (SA) closely monitors the activities on the campus being supported by wardens and faculty members to make it ragging free.

To build up the confidence in the minds of fresher's, faculty do regularly visit the hostels to ensure the truest interaction between fresher's and senior students and spend nights in the hostel during the initial few months.



Academics

Indian Institute of Technology Bhubaneswar is one of the elite technology institutes of India spurred by sustained creation of knowledge and innovation through high-quality R&D activities and commitment to holistic education. The Institute aims to develop and pursue dynamic and flexible curricula designed to facilitate creativity and cognitive thinking among students through a productive partnership with industry. Keeping pace with the changing scenario for providing adequate competent Technocrats and Scientists, IIT Bhubaneswar has raised its student intake significantly in B.Tech and Dual Degree to 475 including supernumerary seats to female students; in M.Sc the student intake raised to 125 with the implementation of @ 10 % reservation for EWS category, apart from 246 in M.Tech. The current strength of students stands at 2814 Students (B.Tech. – 1310, Dual-Degree – 514, M.Tech. – 367, M.Sc – 216, Ph.D – 407). The Institute offers 6 Nos. of B.Tech. 9 Nos. of Dual Degree Programmes, 5 Nos. of M.Sc., 14 Nos. of M.Tech Programmes and Ph.D. Programme in its 7 Schools. The admission for the academic year 2022-23 into the courses PhD, M. Tech., M.Sc., B.Tech and Dual Degrees took place in July, 2022 and November 2022, respectively.

The institute ran its academics in uncompromised standard and completed its spring end semester examination of 2022-23 on May 2023 for all of its students except for the 1st year B.Tech and Dual Degree which will took a month and half more due to late admission and late starting of the semester across all IITs.



Admission, Rejuvenation and Orientation programme for Fresh Students

The Institute conducted the autumn session Ph.D. admission selection (written test and interviews) in off line mode. Admissions for Ph.D., M.Tech and MSc freshers and the regular UG, Dual-Degree, PG and Research scholars were held in off line mode. Their education started off line giving them a feeling of belongingness to the institute running their academics in full standards. To keep the morals of students high, Institute conducted interactive sessions with freshers and continuing students with institute heads in three times. Students were encouraged to participate in the sessions, share their problems and seek solutions. Students have grossly benefitted from these sessions.

The Orientation Programme for the new entrants (B.Tech/ Dual Degree/Ph.D. / M.Tech / M.Sc) was conducted. Schools organised a series of talks on 'Introduction to Engineering' for first-year students in which an overview of different disciplines of engineering was presented by school experts for giving a broad discipline knowledge to the students. Institute has a plan to rejuvenate the students by organizing programmes from the Art of Living Foundation. This programme was organized for the freshers for the entire semester, last year. Student activity clubs and counselling cells organize interactive sessions with the fresher's introducing them to different activities of the institute gymkhana.

The NEP2020 lays emphasis on holistic and multidisciplinary education. Our institute has promoted such courses to its engineering students since its inception. Cutting edge technology courses in AI, Data Sciences, Nano Science and Augmented and Virtual Reality have been offered. Moreover, student activity clubs and counselling cells have been established. Visits to places of historical and monumental importance around the institute and Odisha to make them aware about the locality, culture and heritage in the past.



11th convocation conducted in off line mode:

IIT Bhubaneswar conducted its 11th convocation with the participation of degree recipients in person.

The 11th Annual Convocation was held on 28th January, 2023 in the Community Centre, Argul Campus, IIT Bhubaneswar. Prof. Lalit Mohan Patnaik Adjunct Professor and NASI Senior Scientist, Consciousness Studies Program, NIAS, IISc Campus graced the occasion as Chief Guest and delivered the convocation address. Dr. Rajendra Prasad Singh, Chairman, Board of Governors (BoG), the Director IIT Bhubaneswar Prof. Shreepad Karmalkar and other dignitaries were present on the occasion. Total 671 graduates, (273 B. Tech., 81 Dual Degree, 172 M.Tech. 90 M.Sc., and 55 Ph.D.) were conferred degrees during the occasion.

Shah Raj Kalpeshbhai from B.Tech. (Computer Science and Engineering) was awarded the President of India Gold Medal for topping among all B. Tech. branches, Sai Prasath S, from School of Electrical Sciences (Computer Science and Engineering) was awarded the Direcor's Gold Medal for topping all Dual Degree programmes. Shri Pritam Kumar of M.Tech. Climate Science and Technology School of Earth, Ocean and Climate Sciences was awarded the Director's Gold Medal for topping among all M.Tech. Programmes and Shri Smaran Maji of M.Sc. (Atmosphere and Ocean Sciences), School of Earth, Ocean and Climate Sciences was awarded the Director's Gold Medal for topping among all M.Sc. disciplines. Several other medals and endowment awards were also distributed.

Academic Information for 2022 – 23

Programmes Offered

4-year B.Tech. Programme	Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Science and Engineering, Metallurgical and Materials Engineering, Electronics and Communication Engineering
5-year Dual Degree (B.Tech. + M.Tech)	B. Tech in Mechanical Engineering & M. Tech. in Mechanical System Design, B.Tech in Mechanical Engineering & M. Tech. in Thermal Science and Engineering, B. Tech. in Mechanical Engineering & M. Tech. in Manufacturing Engineering, B. Tech in Civil Engineering & M. Tech. in Structural Engineering, B. Tech in Civil Engineering & Environmental Engineering, B.Tech. in Computer Science and Engineering & M.Tech. in Computer Science and Engineering, B.Tech. in Electrical Engineering & M.Tech. in Power Electronics and Drives, B.Tech. in Metallurgical and Materials Engineering & M.Tech. in Materials Science and Engineering.
M. Tech. Programme	Climate Science and Technology, Electronics and Communication Engineering, Transportation Engineering, Structural Engineering, Metallurgical & Materials Engineering, Mechanical Systems Design, Thermal Science and Engineering, Power System Engineering, Environmental Engineering, Water Resources Engineering, Computer Science and Engineering, Geotechnical Engineering, Manufacturing Engineering, Power Electronics and Drives
Joint M.ScPh.D. Programme	Physics, Chemistry, Mathematics, Geology, Atmosphere and Ocean Sciences.
Ph.D. Programme	School of Basic Sciences, School of Earth, Ocean & Climate Sciences, School of Electrical Sciences, School of Humanities, Social Sciences and Management, School of Infrastructure, School of Mechanical Sciences, School of Minerals, Metallurgical & Materials Engineering.

Year-Wise Sanctioned (Approved) Intake

Academic Programme	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18
B.Tech & Dual Degree	475	475	437	389	350	350
M. Tech.	246	246	246	246	173	154
Joint M.Sc Ph.D.	125	125	125	100	100	100
Ph.D.		449				

Year wise admitted strength of students in various academic Programmes

Year	B.Tech & Dual Degree	M.Tech	M.Sc	Ph.D.	Total
2010-11	126			25	151
2011-12	112			21	133
2012-13	113	42		50	205
2013-14	148	50	57	44	299
2014-15	164	71	71	48	354
2015-16	162	74	76	58	370
2016-17	249	106	73	61	489
2017-18	338	125	70	51	584
2018-19	354 *	156	75	90	675
2019-20	407 *	192	82	63	744
2020-21	442 *	221	96	117	876
2021-22	441*	178	110	75	804
2022-23	453	189	106	107	856

*including Supernumerary Female students and preparatory courses completed students

Total Actual Student Strength (2022-23)

Programme	No. of Male Students	No. of Female Students	Total Students	Within State	Outside State	Socially Backward (SC, ST, OBC-NCL)
B. Tech & Dual Degree	1465	359	1824	88	1736	947
M.Tech	318	49	367	61	306	185
M.Sc.	147	69	216	44	172	103
Ph.D	305	99	404	176	228	154

Course Wise Student Strength

B.Tech & Dual Degree:

SI. No.	Name of Programme	Approved Intake	No. of students admitted in 2022-23		Total number of students in 2022-23		No. of Students passed in 2021- 22	
			Male	Female	Male	Female	Male	Female
1	B.Tech. (Civil Engineering)	66	48	11	176	41	38	7
2	B.Tech (Electrical Engineering)	70	56	14	215	53	48	7
3	B.Tech.(Computer Science and Engineering)	67	52	14	226	53	50	8
4	B.Tech (Electronics and Communication Engineering)	52	42	10	170	39	41	6
5	B.Tech. (Mechanical Engineering)	70	54	14	199	50	41	7
6	B.Tech. (Metallurgical and Materials Engineering)	28	19	5	74	19	16	4
7	Dual Degree (B. Tech in Mechanical Engineering +M. Tech. in Mechanical System Design)	15	11	3	59	14	10	2
8	Dual Degree (B. Tech in Mechanical Engineering & M. Tech. in Thermal Science & Engineering)	15	10	4	49	12	9	1
9	B. Tech. in Mechanical Engineering &M. Tech. in Manufacturing Engineering	15	10	4	54	13	7	2
10	Dual Degree (B.Tech in Civil Engineering & M. Tech. in Structural Engineering)	12	8	4	44	12	9	2
11	Dual Degree (B.Tech in Civil Engineering & M. Tech. in Transportation Engineering)	13	8	5	38	11	5	2
12	B. Tech in Civil Engineering & M. Tech. in Environmental Engineering	13	8	5	34	12	4	2
13	B.Tech. in Computer Science and Engineering & M.Tech. in Computer Science and Engineering	12	10	2	49	11	10	2
14	B.Tech. in Electrical Engineering & M.Tech. in Power Electronics and Drives	12	9	2	46	11	7	2
15	B.Tech. in Metallurgical & Materials Engineering & M.Tech. in Materials Science and Engineering	11	8	3	37	8	4	1
	Total	471	353	100	1465	359	299	55

M.Tech.

SI.	Name of	Approved	Approved admitted in 2022-23		Total nun students in		No. of Students passed in 2021-22	
NO.	No. Programme	птаке	Male	Female	Male	Female	Male	Female
1	Electronics and Communication Engineering	20	9	4	17	4	11	2
2	Power System Engineering	20	17	1	33	3	10	3
3	Power Electronics Drives	20	13	2	27	4	7	2

SI. No.	Name of	Approved Intake	No. of students admitted in 2022-23		Total number of students in 2022-23		No. of Students passed in 2021-22	
NO.	Programme	Intake	Male	Female	Male	Female	Male	Female
4	Computer Science and Engineering	20	12	2	26	2	16	1
5	Mechanical Systems Design	20	16	0	35	0	15	0
6	Thermal Science And Engineering	20	17	1	25	1	14	0
7	Manufacturing Engineering	20	15	2	29	3	16	2
9	Structural Engineering	14	9	2	20	5	11	1
10	Transportation Engineering	13	7	0	16	0	6	0
11	Environmental Engineering	13	8	1	15	4	10	2
12	Water Resources Engineering	13	3	5	8	9	4	2
13	Geotechnical Engineering	13	7	2	12	6	6	4
14	Climate Science And Technology	20	12	4	21	11	9	1
15	Metallurgical & Materials Engineering	20	17	0	30	1	14	3
	Total	246	162	26	314	53	149	23

M.Sc.

SI. No.	Name of Programme	Approved Intake	No. of students admitted in 2022-23		Total number of students in 2022-23		No. of Students passed in 2021-22	
NO.		Intake	Male	Female	Male	Female	Male	Female
1	Chemistry	26	17	8	29	21	14	5
2	Physics	26	20	4	42	7	15	7
3	Mathematics	24	15	6	32	13	14	4
4	Geology	25	10	14	27	21	15	8
5	Atmosphere and Ocean Sciences	24	8	4	17	7	7	1
	Total	125	70	36	147	69	65	25

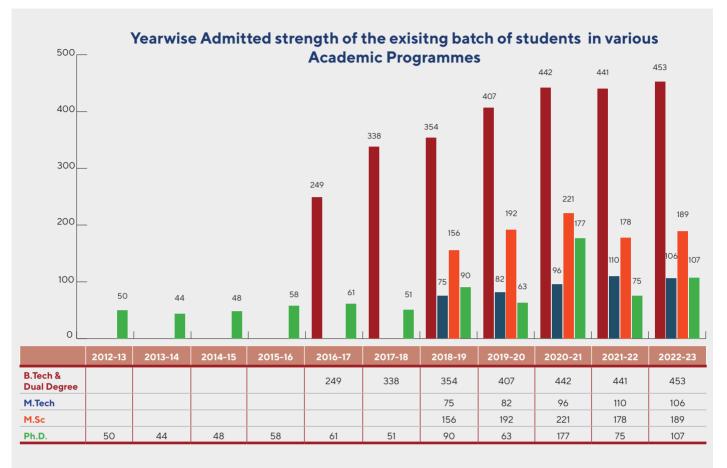
Ph.D:

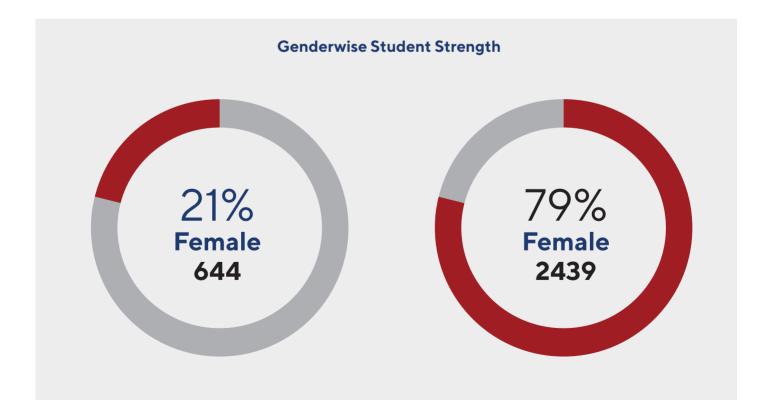
SI. No.	Name of Programme	Approved Intake	No. of students admitted in 2022-23		Total number of students in 2022-23		No. of Students passed in 2021-22	
			Male	Female	Male	Female	Male	Female
1	School of Basic Sciences		24	9	91	45	9	0
2	School of Earth, Ocean & Climate Sciences		4	3	29	8	6	5
3	School of Electrical Sciences		15	3	56	15	7	3
4	School of Humanities & Social Sciences	449	3	10	12	15	1	1
5	School of Infrastructure	447	10	4	42	12	7	3
6	School of Mechanical Sciences		15	1	45	2	6	1
7	School of Minerals, Metallurgical & Materials Engineering		6	0	30	2	4	2
	Total	449	77	30	305	99	40	15

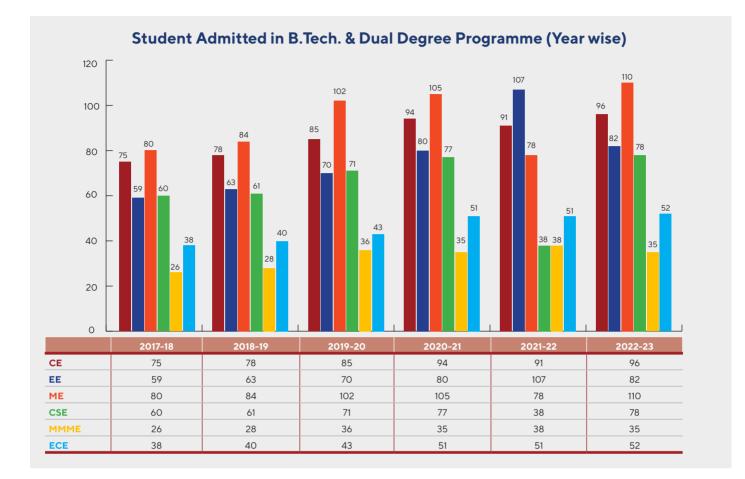
Total fee per student for academic year 2022-23 (per semester)

Courses	General	OBC-NCL	SC/ST/PwD	Sponsored
B.Tech	₹1,53,290.00	₹1,53,290.00	₹53,290.00	Not Applicable
M.Tech	₹58,290.00	₹58,290.00	₹53,290.00	₹77,790.00
M.Sc	₹53,290.00	₹53,290.00	₹53,290.00	Not Applicable
Ph.D	₹55,790.00	₹55,790.00	₹53,290.00	₹55,290.00

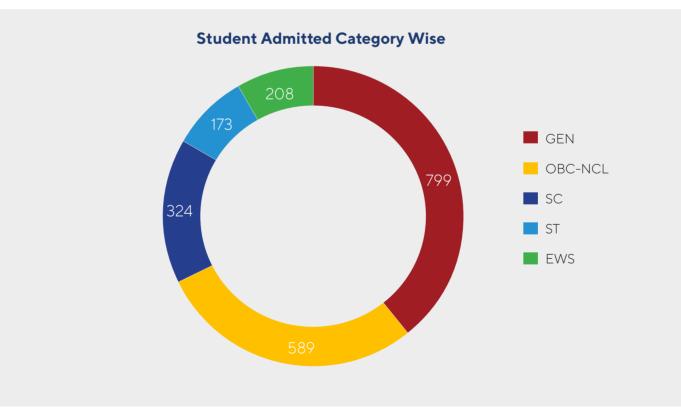
Graphical Representation of Different Academic Programmes upto 2022-23 (Based on Admission Records)







B.Tech. & Dual Degree Programme



UG Student Admitted in Different Programmes : 2022-23



B.Tech. (Civil Engineering)



B.Tech. (Metallurgical and Materials Engineering)



Dual Degree (B.Tech in Civil Engineering+ M. Tech. in Transportation Engineering)



B.Tech (Electrical Engineering)

14





B. Tech in Civil Engineering + M. Tech. in Environmental Engineering



14





B.Tech. in Computer Science and Engineering+ M.Tech. in Computer Science and Engineering B.Tech (Electronics and Communication Engineering)



B. Tech. in Mechanical Engineering +M. Tech. in Manufacturing Engineering



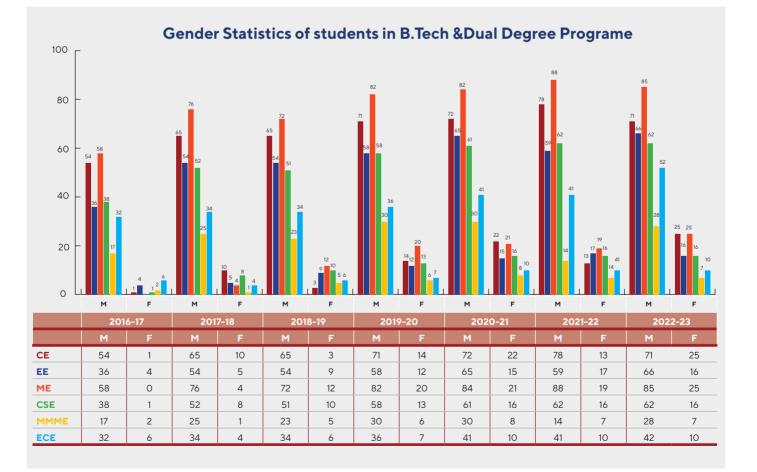
B.Tech. in Electrical Engineering + M.Tech, in Power Electronics and Drives 68 B.Tech. (Mechanical Engineering)

12

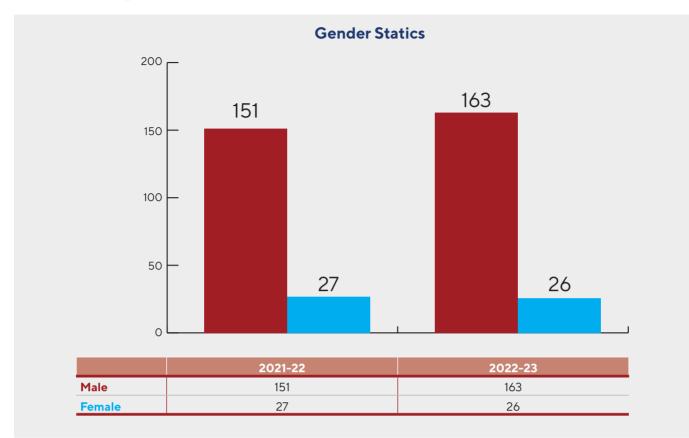
Dual Degree (B.Tech in Civil Engineering+ M. Tech. in Structural Engineering)

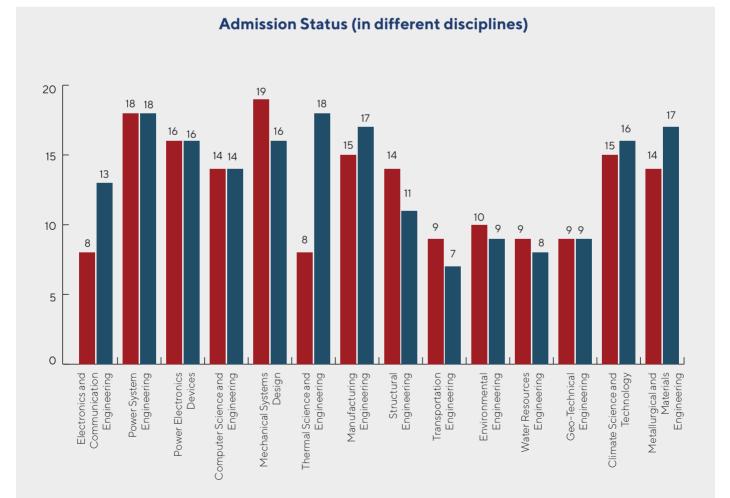


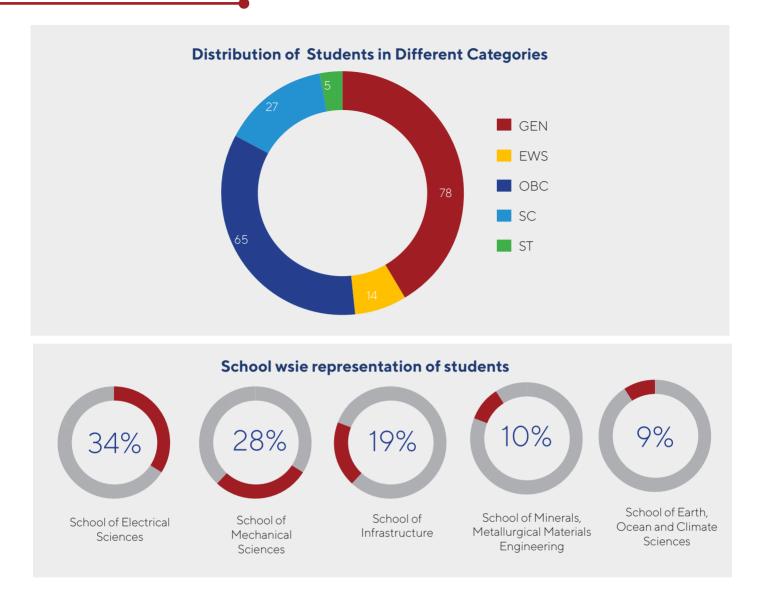
B.Tech. in Metallurgical & Materials Engineering + M.Tech, in Materials Science and Engineering



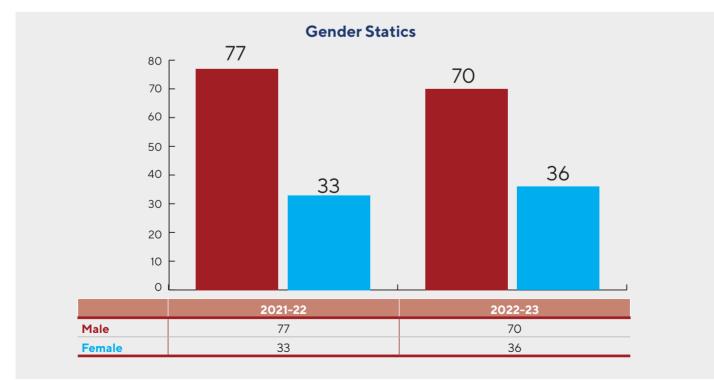
M.Tech. Programme



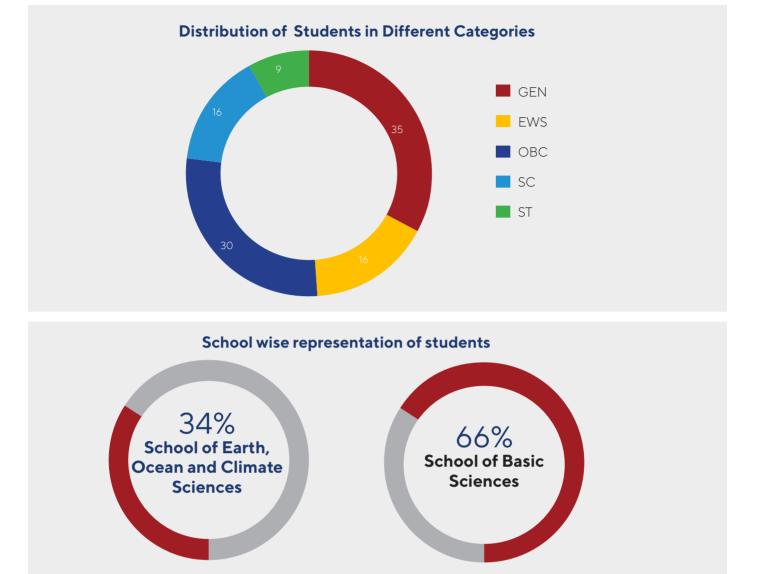


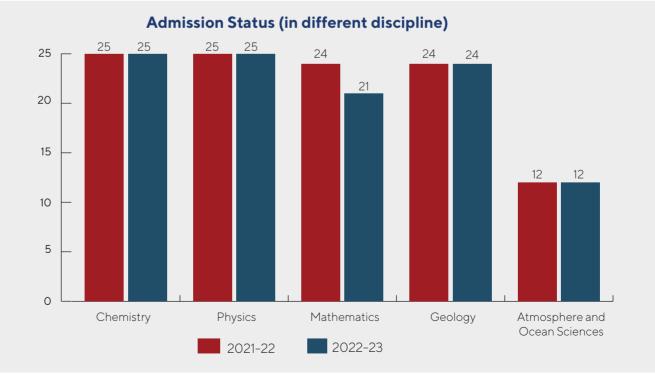


Joint M. Sc. – Ph.D. Programme

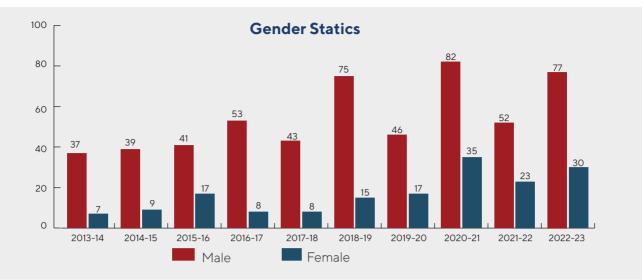


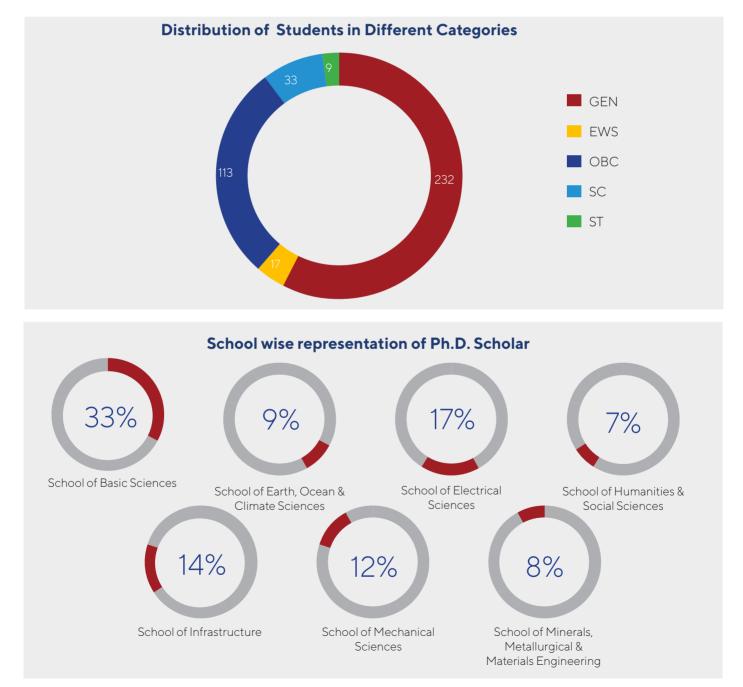
Annual Report 2022-23





Ph.D. Programme





Graphical Graduation Data (Last Three Years) Graduation Data 2019-20

Disciplines	Ph.D.	M.Tech.	M.Sc.	B.Tech.
Civil Engineering				32
Computer Science and Engineering		16		41
Electrical Engineering				37
Mechanical Engineering				35
Electronics & Communication Engineering		13		41
Metallurgical and Materials Engineering		18		14
Climate Science & Technology		15		
Mechanical Systems Design		19		
Thermal Science and Engineering		16		
Power System Engineering		13		
Structural Engineering		10		
Transportation Engineering		4		
Environmental Engineering		9		
Water Resources Engineering		8		
School of Basic Sciences	12			
School of Electrical Sciences	7			
School of Infrastructure	6			
School of Mechanical Sciences	4			
School of Humanities, Social Sciences & Management				
School of Earth, Ocean and Climate Sciences	3			
School of Minerals, Metallurgical and Materials Engineering	3			
Atmosphere and Ocean Sciences			9	
Chemistry			14	
Geology			18	
Mathematics			16	
Physics			13	
Total:	35	141	70	200

Graduation Data 2020-21

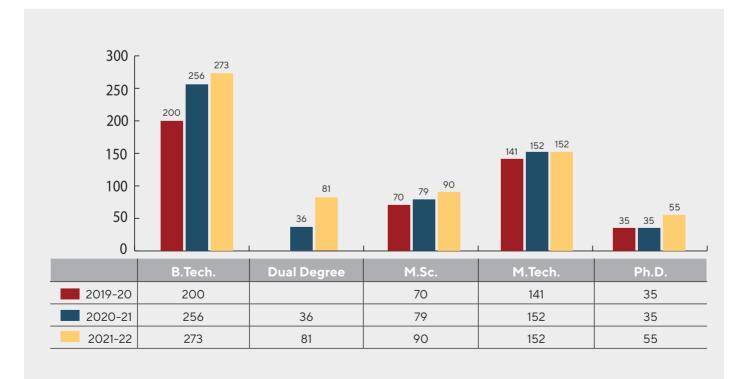
Discipline	Ph.D.	M.Tech.	M.Sc.	B.Tech.	Dual Degree
Civil Engineering				44	
Computer Science and Engineering		13		55	
Electrical Engineering				51	
Mechanical Engineering				46	
Electronics & Communication Engineering		15		40	
Metallurgical and Materials Engineering		06		20	
B.Tech. in Civil Engineering and M.Tech. in Structural Engineering					10
B.Tech. in Civil Engineering and M.Tech. in transportation Engineering					06
B.Tech. in Mechanical Engineering and M.Tech. in Mechanical System Design					11
B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering.					09

Discipline	Ph.D.	M.Tech.	M.Sc.	B.Tech.	Dual Degree
Climate Science & Technology		14			
Mechanical Systems Design		17			
Thermal Science and Engineering		17			
Power System Engineering		17			
Structural Engineering		04			
Transportation Engineering		06			
Environmental Engineering		03			
Water Resources Engineering		05			
Geotechnical Engineering		05			
Manufacturing Engineering		14			
Power Electronics and Drives		16			
School of Basic Sciences	08				
School of Electrical Sciences	11				
School of Infrastructure	04				
School of Mechanical Sciences	03				
School of Humanities, Social Sciences & Management					
School of Earth, Ocean and Climate Sciences	05				
School of Minerals, Metallurgical and Materials Engineering	03				
Atmosphere and Ocean Sciences			05		
Chemistry			20		
Geology			15		
Mathematics			21		
Physics			18		
Total:	35	152	79	256	36

Graduation Data 2021-22

Discipline	Ph.D.	M.Tech.	M.Sc.	B.Tech.	Dual Degree
Civil Engineering				45	
Computer Science and Engineering		17		58	
Electrical Engineering				55	
Mechanical Engineering				48	
Electronics & Communication Engineering		13		47	
Metallurgical and Materials Engineering		17		20	
B.Tech. in Civil Engineering and M.Tech. in Structural Engineering					11
B.Tech. in Civil Engineering and M.Tech. in transportation Engineering					07
B.Tech. in Civil Engineering and M.Tech. in Environmental Engineering					06
B.Tech. in Mechanical Engineering and M.Tech. in Mechanical System Design					12
B.Tech. in Mechanical Engineering and M.Tech. in Thermal Science and Engineering.					10
B.Tech. in Mechanical Engineering and M.Tech. in Manufacturing Engineering.					09
B.Tech. in Computer Science Engineering and M.Tech. in Computer Science Engineering					12
B.Tech. in Electrical Engineering and M.Tech. in Power Electronics and Drives					09

Discipline	Ph.D.	M.Tech.	M.Sc.	B.Tech.	Dual Degree
B.Tech. in Metallurgical and Materials Engineering and M.Tech. in Metallurgical and Materials Engineering					05
Climate Science & Technology		10			
Mechanical Systems Design		15			
Thermal Science and Engineering		14			
Power System Engineering		13			
Structural Engineering		12			
Transportation Engineering		06			
Environmental Engineering		03			
Water Resources Engineering		17			
Geotechnical Engineering		10			
Manufacturing Engineering		18			
Power Electronics and Drives		09			
School of Basic Sciences	09				
School of Electrical Sciences	10				
School of Infrastructure	10				
School of Mechanical Sciences	07				
School of Humanities, Social Sciences & Management	02				
School of Earth, Ocean and Climate Sciences	11				
School of Minerals, Metallurgical and Materials Engineering	06				
Atmosphere and Ocean Sciences			08		
Chemistry			23		
Geology			15		
Mathematics			18		
Physics			22		
Total:	55	152	90	273	81



Scholarship:

B.Tech. & Dual Degree & Joint M.Sc.-Ph.D

Programme	Name of Scholarship	2022 (Batch)	2021 (Batch)	2020 (Batch)	2019 (Batch)	2018 (Batch)	2017 (Batch)	2016 (Batch)
B. Tech. & Dual	MCM Scholarship	156	167	70	45	37	65	
Degree	Free Studentship	12	15			6	1	
	Financial Assistance	0	0		7	1	5	2
Joint M.Sc Ph.D.	INSPIRE & Other Scholarship		9	4	11			

Awards & Medals and Participation in Conference

Programme	Awards & Medals	National Conference	International Conference
B. Tech.	11		
Dual Degree	12	1	
M. Tech.	13		
Joint M. Sc. – Ph.D.	6		
Ph.D.	55	72	12

Special Events in 2022-23

Programme	Date
Senate Meetings	13.06.2022
	21.10.2022
	16.12.2022
11 th Annual Convocation	28.01.2023
15 th Foundation Day	12.02.2023
National Science Day	28.02.2023
International Women's Day	04.03.2023

International Collaborations

Since its inception, the Institute has started collaborative activities with many universities abroad. MoU has been signed with many Universities for research collaboration, faculty and student exchange. As a result of partnership understanding set by IIT Bhubaneswar, active academic interaction in research and teaching is going on between our students/faculty members and their counterparts in the following universities:

- University of Warwick
- University of Southampton
- University of Massachusetts, Dartmouth
- University of Western Ontario

- McGill University
- University of New York, Buffalo
- University of North Dakota, USA

School of Basic Sciences (SBS)



About the School

The School of Basic Sciences is a unique school with an emphasis on interdisciplinary research in areas of Physics, Chemistry, Mathematics and Biosciences.

Presently SBS offers programs as follows:

- Joint M.Sc.- Ph.D. in Physics, Chemistry and Mathematics
- Ph.D. in Physics, Chemistry, Mathematics and Biosciences
- Post-doctoral program

The School is proud to have two Centres of Excellence, namely MOE Centre of Excellence for Novel Energy Materials (CENEMA) and S. K. Dash Centre of Excellence of Bio-sciences and Engineering & Technology (SKBET)

Statistics:

- No. of faculty: 44
- No. of publications: 203
- No. of Class Rooms with multimedia projectors: 06
- No of Ongoing Sponsored Research Projects for 2022-23-43

Major Teaching Areas

The school lends is support to basic science courses (Biochemistry, Chemistry, Physics and Mathematics) to the undergraduate (B.Tech.) programmes running at IIT Bhubaneswar in. In addition, the school offers full-fledged Master of Science (Joint M.Sc.-Ph.D.) programmes in Chemistry, Physics and Mathematics disciplines. The intake capacity in each of these M.Sc. Programmes is 20.

Major Research Areas

The school enjoys a multitude of interdisciplinary research. However, the major research areas can be broadly categorized into the disciplines of Biochemistry, Chemistry and Biosciences, Mathematics and Physics.

Biochemistry

Protein Chemistry and Spectroscopy, Structure-Function Elucidation of Various Small Heat Shock Proteins Related to Different Diseases (Cataract, Leprosy and Tuberculosis); AAA+ ATPase; gastrointestinal (stomach, pancreatic and colorectal) cancers, cancer biomarkers; cancer therapeutics; gut microbiota; pan-cancer analyses. Structure Function Studies on Peptide or Protein binding G-protein Coupled Receptors; Rational Design of Peptides / Proteins as Therapeutics (Antimicrobial / Antiviral / Anti-inflammatory); Chemical and Cellular Biology; Computational Biology and Bioinformatics; Protein-Protein Interactions; Drug Design and Discovery

Chemistry

There are three broad research areas in Chemistry research -inorganic, organic, and physical and theoretical chemistry.

Inorganic Chemistry:

Biomedicinal Chemistry: T1, T2 and paraCEST based contrast agent for Magnetic Resonance Imaging; Fluorogenic and Chromogenic Chemosensor: sensing cations, anions and some hazardous and explosive molecules/ions.

Coordination Chemistry:

Synthesis of [nxn] grid complexes and 3d-4f metal complexes and their magneto chemistry and Emission properties; Bioinorganic perspective of coordination complexes: Stabilization of unusually high oxidation states of metal ions; Ionic Liquids and their application; Synthesis and Coordination Aspects of Homo and Heterometallic Complexes; Metal-Based Anticancer/Imaging Agents; Functional Materials and Luminescent Materials; Nanoparticle-Based Sensors; Metal-Organic and Covalent Open Frame (MOF and COF) Compounds; Design of Functional Organometallics, Multimetallic Catalysis for Fine Chemicals, Novel Activation of C1-Platform Chemicals, Mechanistic studies of C-H, C-O, C- N, C-X activation on Organometallic Template, Green Chemistry: On-Water Catalysis, Nanoparticle catalysis.

Organic Chemistry:

Heterocyclic Chemistry, Asymmetric synthesis using chiral pool approach; Enantioselective catalysis and

new reaction methods; New molecular entities with biological properties; Dipolar Cycloadditions; C-H functionalization, Pericyclic reactions, Metathesis, Umpolung chemistry, Radical chemistry, traditional & newer functional group transformations for application in marine alkaloids synthesis, terpenoids and polyketide based natural products; Carbohydrate Chemistry, novel synthetic methods development, Bioactive Natural and Unnatural Products synthesis; Supramolecular Chemistry, Molecular Recognition, Polymer chemistry: Synthesis of Chiral Polymers and their applications in chiral induction; Synthesis of Achiral and Chiral Resins and their applications in synthesis; PIL stabilized metal nanoparticles and their applications; Polyelectrolyte-DNA interaction studies; PILs for gas separation membranes; Synthesis of MIPs and resins for nuclear waste treatment; Synthesis of (RAFT derived) ionic, pH, temperature and solvent responsive homoand block copolymers towards their self-assembling for drug delivery; Design, Synthesis and Characterization of Peptides; Anticancer and antimicrobial activities of plantderived natural products.

Physical, Theoretical, and Computational Chemistry:

Molecularmodeling; moleculardynamics (MD) simulations; Development and application of multi-configurational quantum mechanical methods to study energetics and dynamics of bound and transient states; Investigation of photochemical reactions in the non-adiabatic ("beyond-Born-Oppenheimer") realm; Computational modeling of chemical reactions using quantum mechanical (QM) and mixed quantum mechanical – molecular mechanical (QM/MM) methods; Investigation of bacterial resistance toward beta-lactam based antibiotic drugs using QM/MM methods.

Mathematics

The main areas of research in Mathematics are Algebra, Algebraic Geometry, Applied Functional Analysis, Operator Theory, Commutative Algebra, Complex Analysis, Several Complex Variables, Complex Dynamics and Fractals, Number Theory, Spectral Graph Theory, Algebraic Combinatorics, Optimization Theory, Queueing Theory, Applied Probability Models, Stochastic Partial Differential Equations, Computational Fluid Dynamics, Numerical Methods, and Soft Computing

Physics

Experimental:

- Expertise on PVD, PLD, CVD, MBE, and MOCVD growth processes and methods.
- Expertise on Transport measurements and other Physical property measurements including magnetic and electronic properties, scanning tunneling microscopy and spectroscopy, electron microscopy, X-ray and lon Scattering, cryogenic temperature measurements.
- Expertise on sensors and device fabrication and their applications.

Growth, characterization and prototype applications of low-dimensional systems (1D and 2D materials) in the realm of nanoscience and nanotechnology and quantum technology, surface and interface physics

- Novel materials for energy applications, sensor applications, industrial applications, and strategic research.
- Strongly correlated electron system, the study of realtime kinetics including ultrafast dynamics
- Optical fibre sensors, nano- and bio-photonics, terahertz sensing and spectroscopy, waveguide & interferometer, materials for quantum optics.
- Accelerator ion beam based research such as engineering nanostructured materials, ion-matter interaction processes, ion beam induced synthesis and characterization with ion beams, atomic and molecular surface physics.

Theory/Computational:

- Expertise on computational physics and quantum information.
- First principles molecular dynamics simulations, quantum transport, quantum biology.
- Non-equilibrium statistical mechanics, nanomagnetism, quantum dissipation and decoherence.
- Computational condensed matter physics; electronic and magnetic properties of 2D materials; functional materials; energy storage; chromatin folding and DNA transcription.

 Theoretical and experimental high energy physics: quantum field theory, quantum information, string theory, blackholes (theory) and beyond standard model physics (experiment – international collaborations)

Theme areas:

- (a) Emergent phenomena and energy materials: 2D layers, nanostructures for solar cells, supercapacitors, and fuel cells
- (b) Device physics: sensors, photonic devices, electronics, and health care
- (c) Computational condensed matter physics
- (d) Quantum technology: quantum information (theory), Qbits (future), devices based on quantum technology.

The discipline of Physics, School of Basic Science will focus on synthesis and detailed characterization (structural, electronic, optoelectronic, topological, and correlated quantum states) of materials based on family of twodimensional (2D) transition metal dichalcogenides (TMDs) (MX₂ where M is metal centres such as Mo, W, and X is chalcogen such as S, Se, Te). Effectively, the plan for the next five years is to build background knowledge which will be essential for working on technologies for the realization of quantum computers. Briefly, the proposal focuses on emergent electronic properties of 2D TMDs structures, quantum nanophotonics, and theoretical aspects of quantum transport and dynamics.

Two-dimensional materials have been at the forefront of condensed matter physics since more than a decade. Joining graphene and hBN are a family of 2D TMDs which exhibit diverse electrical properties ranging from metallic, semiconducting, ferromagnetic, and superconducting to topological phases.

TMDs have also opened an avenue to create material structures through "materials by design" by realizing van der Waals (vertical) and lateral heterostructures. Multiple degrees of freedom (e.g. properties of individual TMD layers, their stacking, and the relative azimuthal rotation between the layers in vdW HS; properties of individual TMD layers and type of interface in lateral HS) enable us to synthesize "materials by design" which is not present in conventional materials system. Consequently, the complex lateral and vertical heterostructures formed by 2D TMDs will provide even richer and versatile platform to explore new emergent and complex phenomena which are rather weak or absent in their pristine counterparts.

These materials will have potential applications in the realization of quantum bits as well as next-generation solar cells, transistors, diodes, p-n photodiodes, and CMOS devices. While new exotic physical phenomena and their technological importance are envisaged in various TMD structures, extensive experimental studies need to be carried out for exploring these phenomena. The discipline of physics, School of Basic Science, IIT Bhubaneswar has the following plan:

- 1. **Synthesis**: We propose to develop new mathematical and computational models to advance the fundamental understanding of the growth of heterostructures in order to predict layer morphologies and to provide a rationale framework to optimise the growth process. Using this understanding, we plan to synthesize various 2D TMD materials by harnessing the concepts of kinetics and thermodynamics of growth reactions. We will mainly use Chemical Vapour Deposition (CVD) technique to realize TMD structures. We aim to synthesize ternary alloys of 2D TMDs materials, vdW (vertical) and lateral TMDs. While ternary alloys of will allows more precise tuning of their electronic. Properties, lateral and Vertical heterostructures will possess fascinating and exotic 1D electronic states at their interface.
- 2. Structural characterization: Structural characterization of the synthesized TMD structures will be carried out using Raman spectroscopy, Atomic Force Microscopy (AFM), Scanning Tunneling Microscopy (STM). AFM and STM measurements will be used to image the TMD structures for the determination of the lateral size and layer thickness for the optimization of the growth process. AFM also allows to record wealth of information such as maps of elastic modulus, adhesion, deformation, local surface conductivity, and contact potential. Additionally, STM measurements will be used to record images of the TMD structures with atomic resolution capturing information about surface reconstructions, superlattices like moire pattern in vdWheterostructures as well as electronic properties like the electronic density of states, work function. Further, we will use Raman spectroscopy to investigate the electronic, optical, and lattice-vibration properties of the synthesized structures.
- 3. Electrical transport measurements and devices: We will realize devices based on TMD structures and investigate their electronic properties through electronic transport in a cleanroom environment.

Towards this end, we will fabricate devices in Field Effect Transistor (FET) and Hall bar geometries using large area TMD structures. FET geometry will allow us to measure carrier type, carrier mobility (often used as a figure of merit), and carrier density in the TMD structures.

- 4. Quantum optical measurements: We will study electrical, optical and magnetic characterization of different 2D quantum dot emitters (QDE) and their heterostructures for Generation of single photon. Further, the synthesized QDEs will be integrated with Nanowires and we will study its antibunching behaviour, saturation measurement and coupling efficiency towards single photon emitter: experimentally and computationally. Further, to have more insight into the coupling of the QDEs to the nanowire, polarization dependence excitation and emission will be done. These systems will be used for the development of interferometer, resonators and single molecule detection.
- 5. Computational modeling: We will conduct a large scale computational search to identify novel compositions of TMDs and their heterostructures. Furthermore, interlayer stacking sequence and different orientation of the adjoining monolayers further expands the composition phase space of TMD materials.

This class of materials is so broad and varied in the composition that to identify the "best performers" in the enormous parameter space through experiments is impractical and expensive. As a result, a high-throughput computational screening approach is needed where predictions of chemical and mechanical stability, changes in interlayer spacing, strain in the layers during heterostructure formation and basic electronic properties can be made efficiently. We will also devise the high-throughput approaches for novel composition discovery and property predictions based on existing approaches such as genetic algorithm and machine learning.

6. Quantum dynamics and quantum thermodynamics: To enhance the deeper understanding of 'designer material' devices and to prepare for the quantumbit based technologies, we will investigate the fundamentals of quantum dynamics, quantum transport at the Nanoscale, and quantum thermodynamics. Starting from the first principles, we aim to develop new methodologies and will try to implement new computational treatments to address the novel phenomenon in quantum dynamics, thermal energy management, and Optoelectronics is essential for the realization of quantum computers.

Details of Strength of Physics Discipline

We strongly believe that the faculty members at the Discipline of Physics, School of Basic Sciences, IIT Bhubaneswar are among the best groups in the scientific community in the world working in the areas of theoretical and experimental condensed matter physics, Nano and micro-photonics, open quantum systems, black holes and string theory, experimental high energy physics, and cosmology.

Further, the faculty members have national and international collaboration with groups from many renowned and prestigious universities and institutes such as TIFR Mumbai, TIFR Hyderabad, IISER Pune, ICTS Bangalore, IISc Bangalore, University of Toronto, Canada, NTU Singapore, National University of Sydney, Aalto University, Finland; Columbia University, New Jersey Institute of Technology, Stanford University, Kings College London, TU Vienna, and KU Leuven.

State of the art Facilities

The School has procured state-of-art equipment to pursue advanced research. The following advanced instrumentation facilities have been established through central instrumentation facility:

- X-ray Diffractometers(XRDs)
- Scanning Electron Microscope (SEM)
- Raman Spectrophotometer
- Rheometer Nuclear Magnetic
- Resonance (NMR)
- Physical Properties Measurement System (PPMS)
- Gas Chromatography-Mass Spectrometry (GC-MS

IIT Bhubaneswar is a member of both Belle and Belle II collaborations at KEK, Japan and a member of CMS collaboration, at Large Hadron Collider (LHC), CERN, Geneva.

The School is fully equipped with a central computing server system and is integrated and functional for all sorts of high computing research and analysis.

SBS Laboratories

The School of Basic Sciences presently has the following laboratories equipped with relevant modern equipment and instruments:

- Atomic Molecular and Surface Physics Lab
- Biochemistry Lab
- Bioinstrumentation Lab
- Chemical Biology Lab
- Coordination Chemistry and Materials Chemistry
 Lab
- Coordination Chemistry Lab
- Theoretical Chemistry Lab
- Quantum Chemistry Lab
- Experimental High Energy Physics Lab
- M.Sc. Chemistry Lab
- M.Sc. Mathematics Lab

- M.Sc. Physics Lab
- Magnetic Materials Lab
- Nano Photonics & Plasmonics Lab
- Nanostructure & Soft Matter Physics Lab
- Organic Chemistry Lab
- Organic Synthesis Lab
- Protein Chemistry Lab
- Quantum Chemistry Lab
- Renewable Energy Lab
- Supramolecular Chemistry Lab
- Undergraduate Chemistry Lab
- Undergraduate Physics Lab

Infrastructural strengths:

The following experimental and theoretical research facilities are currently available.

Facility	Research
Physical Property Measurement System (PPMS)	For electronic transport measurements at low-temperature (2K) and high magnetic field (9T)
Pulsed Laser Deposition (PLD) setup	For creating dissimilar heterostructures
Field Emission Scanning electron Microscope (Carl Zeiss)	For morphological and elemental characterization of the synthesized TMD structures
Raman Spectrometer - (triple Raman Spectrometer, T64000, Horiba)	For optimization of high quality growth of TMDs structures
Solar Simulator	For solar-cell measurements
Scanning Tunneling Microscope (ambient condition) - in the process of procurement	For structural and electronic characterization of the TMD structures
Wire bonder	For bonding devices on sample holders
Single crystal and powder X-ray Diffractometer	For structural characterization and phase analysis
Source meter + Impedance analyzer + Nano-voltmeter	For electrical characterization
Time-resolved photoluminescence	For study of fast electronic deactivation processes
Electron- and lon-implantation setup (Indigenously developed)	For ion/electron modification of TMDs and other nanomaterials
Optical microscope	For optical access to the structures
MATLAB + LabView + Comsol + VASP	For computational simulation and modelling of materials and material properties
400MHz NMR Spectrometer	For characterization of organic, inorganic and biomolecules
High Resolution Mass Spectrometer	For mass determination of any organic material

School of Earth, Ocean and **Climate Sciences (SEOCS)**



About the School

The School of Earth, Ocean and Climate Sciences (SEOCS) has established in 2012 to provide an intellectual, congenial and vibrant atmosphere for developing state-of-the-art education and research in Earth System Sciences through an integrated inter-disciplinary systemic view of Earth-Ocean-Atmospheric interactions processes for sustainable development. Earth is a complex and dynamic system. While understanding and appreciating its work is essential; knowledge of its dynamics is not only important but also necessary for sustainable living. Earth scientists, atmospheric scientists, and oceanographers have challenging responsibilities to help guide the planet through the current climate crisis.

Though rich in natural resources, Odisha is also prone to natural calamities and extreme events such as tropical cyclones, heavy rainfall, heatwave, thunderstorm and lightning, flood, etc., drought. The region also faces massive problems of pollution due to large mining operations and coal combustion, coastal erosions, mangrove depletion, etc.

The famous Chilka lake and bio-reserve areas like Similipal are under severe threats. Even though these appear as local and regional problems, they have far-reaching global implications. Among many other global research thrust areas, SEOCS is also contributing to these aforementioned regional research challenges.



Academic Programs:

Presently SEOCS offers programs as follows:

- Joint M.Sc. Ph.D. in Geology and Joint M.Sc. Ph.D. in Atmosphere and Ocean Sciences
- M. Tech. in Climate Science & Technology
- Ph.D. in Geological, Atmospheric and Oceanic Sciences

The School offers postgraduate-level degree programs besides doctoral research avenues in the areas of Geosciences and Climate Sciences intending to impart state-of-the-art education and training on both fundamental and applied aspects of Earth, Ocean and Climate Sciences besides enabling the students to carry out cutting edge research and innovation in Earth System Sciences.

The School aims to create well trained, educated and competent human resource to address various issues like protection of water and air, development of renewable energy, hydrocarbons, disaster warming, prediction and preparedness, watershed and flood management, coastal erosion, environment pollution assessment, resource conservation and recycling, development of clean technologies, climate change prediction and impact on socio-economic well-being.

The School's research is focused on Physical oceanographic monitoring and oceanographic modeling. The research

in the atmospheric sciences focused on understanding Indian Summer Monsoon and Tropic Cyclone dynamics and future predictions, besides environmental modeling. The Geoscience research is focused to resolving and understanding the saltwater intrusion into coastal aquifers, groundwater pollution, coastal processes, environmental monitoring and assessment, understanding of paleomonsoon and paleoclimate in centennial to the multi-millennial time scale, crustal deformations etc.

Statistics:

- Number of Faculty: 10
- Ph.D. awarded/submitted: 09
- Ph.D. students enrolled: 6
- Number of Ph.D. students: 34
- Number of M.Sc. students: 73
- Number of M.Tech. students: 28
- Number of Publications: 56
- Ongoing Sponsored Research Projects = 12

State-of-The-Art-Laboratories

The School has established state-of-the-art facilities for Geophysical and Geochemical analyses, Petrological and Paleontological studies, Paleoceanography and Paleoclimatology, Hydrogeochemical and Environmental studies, Remote Sensing & GIS, Modelling and Visualization Weather Analysis and Forecasting, and Simulations of Atmospheric and Oceanic Processes. The list of laboratories are as follows

- Advance Geochemistry Laboratory
- Advanced Mineralogy & Crystallography Laboratory
- Applied Paleontology Laboratory
- Climate Observatory
- Cloud physics
- Computational Geosciences & Geophysical Laboratory
- Geophysical Lab
- Hydrogeological and Hydro-metrological Laboratory
- Instrumentation and Observation Laboratory
- Modeling and Visualization Laboratory
- Ocean Analysis and Modeling Laboratory
- Ore Geology Laboratory
- Petrology & Geochemistry Laboratory
- Remote Sensing and GIS Laboratory
- Structure Geology Laboratory
- Sedimentology Laboratory
- Paleoclimatology and Paleoceanography Laboratory
- Weather Analysis and Forecasting Laboratory

The institute has also got possession of land along the coastline near Loudigaon adjacent to IISER Berhampur, to monitor the land-sea interaction processes in and around the Bay of Bengal region. It is envisaged to establish a coastal observatory for collecting real-time observational data and closely monitor the Bay of Bengal. Several national and international institutes have come forward to collaborate and address challenging scientific problems.

School of **Electrical Sciences (SES)**

About the School

The School of Electrical Sciences was established in the year 2008. Presently SES offers the following academic programs:

- 4-year B. Tech. in Electrical Engineering, Computer Science & Engineering, Electronics and Communication Engineering
- 5-year dual degree (B. Tech. and M.Tech.) in Electrical Engineering, Computer Science & Engineering
- M. Tech. in Signal Processing and Communication Engineering, Power System Engineering, Power Electronics and Drive Computer Science and Engineering and Integrated Circuits and VLSI Systems.
- Ph.D. Programmes: In all major areas of Electrical Sciences

The school has a distinguished record in both teaching and research. Faculty members are active in research and

development and are publishing their research findings in highly reputed national and international leading journals and in national and international conferences. In addition, the faculty members are engaged in a number of consultancies and in project activities sponsored by government and leading industries.

Statistics:

- No. of Faculty: 38
- No. of Ph.D. Students enrolled: 156
- No. of Ph.D. Students Graduated: 50
- No. of M. Tech. Students Enrolled: 420
- No. of B.Tech.. Students Enrolled: 826
- No. of publications: 156
- No of Ongoing Sponsored Research Projects for 2022-23:41



State of the Art Facilities

The School has numerous state of the art laboratories and facilities including VLSI system design and fabrication lab, RTDS lab, Renewable Energy system lab, Radiating system design lab and computational facilities for application development and research. Full-fledged FPGA implementation and development facilities linked with embedded system tools and MATLAB provide a smooth platform for ambitious developers.



Laboratories

The School has full-fledged laboratories to train the undergraduate, postgraduate students, and research scholars from the very basics to modern trends in the field of Electrical Engineering, Electronics and Communication and Computer Science Engineering. Students utilize the modern lab facilities and equipment to carry out design and testing of various circuits, projects, programs, and proof of concepts of various research aspects in electrical, electronics, communications, and computer engineering. At present, there are 34 laboratories that include:

- Advanced Communication Lab
- Algorithm Lab
- Analog & Digital Electronics Lab
- Basic Electronics Lab
- Biomedical Signal Processing Lab
- Cloud Lab
- Communication Engineering Lab
- Computer Architecture and Embedded Systems
 Lab
- Computer Networking Lab
- Control & Instrumentation Lab
- Database Systems Laboratory
- Digital Signal Processing Lab
- Electric Machines Lab
- Electrical Technology Lab
- FACTS and Power Quality Laboratory
- High Performance Computing laboratory
- Image & Video Processing Lab
- Measurement and Instrumentation Lab

- Micro-fabrication and Characterization Lab
- Multimedia Lab
- Operating System & DBMS Lab
- Optical Communication Lab
- Power Electronics & Electric Drives Lab
- Power Quality & FACTS Lab
- Power System Analysis & Protection Lab
- Real Time Digital Simulation (RTDS) Lab
- Real time Embedded Systems Lab
- Real-time Signal Processing Lab
- Renewable Energy Systems
- RF, Microwave & Characterization Lab
- Security Lab
- Signal Processing Lab
- Smart Grid & Hybrid Energy System Lab
- Telemedicine Lab
- Wireless Communication & Sensor Networks Lab
- VLSI Simulation Lab



School of Humanities, Social Sciences and Management (SHSS&M)



About the School

The School of Humanities, Social Sciences and Management is a good synthesis of different disciplines in Social Sciences and Humanities like, Philosophy, Economics, Psychology and English Literature. It consists of 19 faculty members. The school exhibits multi- disciplinary and inter- disciplinary work too. It works on the Tattraiye Upanishada 1.11.1 motto, svādhyāyānmā pramadaļu Never get tired of studying. It aims to help in building a society which consists of wise, emotionally intelligent beings who are responsible, aware and consistent in their contribution.

Statistics:

- No. of Faculty: 19
- Number of Ph.D. students graduated: 02
- Number of Ph.D. students enrolled at present: 26
- Number of Ph.D. students submitted the thesis: 01



- Ongoing Research Projects: 02
- Completed Research Projects: 00
- Academic Awards / Fellowships / Funding: 3
- No. of Computers: 15
- No. of Major Equipment's: 0
- Industry and academic conferences attended/ organized: 18
- Number of research papers published: 27

Integrated Computational Lab with Data Bank (ICLDB)

The ICLDB is meant to be used by the research scholars and faculty members for Computation and forecasting of various socioeconomics variables.





Research Areas:

- Indic Philosophy.
- Critical Thinking.
- · Philosophy of Language.
- Indian Philosophy.
- Existentialism.
- Feminist Phenomenology.
- Public Philosophy.
- Vedic Philosophy.
- English language training programme.
- Forest Resource Management.
- Impact of climate change on Agricultural sector.
- Mining Sector and Productivity.
- · Valuation of natural resource.
- Solid Waste Management.
- Insurance.
- Open Macroeconomics.
- Applied Econometrics.
- Development Economics.
- Public Policy.
- Health Economics.
- Labour Economics.
- Macroeconomics Policy Making.
- International Trade and Development.
- International Finance.
- Complex economic dynamical systems.

- Indian Writing in English.
- Migrant/Diaspora Literature Travel.
- · Literature; Autobiographies; Creative Writing.
- Film Studies and Popular Culture.
- Ethics of Care.
- Clinical Psychology.
- · Contemporary American Literature.
- Colonial Historiography.
- Cognitive Psychology.
- Comparative Mythology.
- Women's Literature.
- Road Narratives.
- Feminist Theory.
- Gender Studies.
- Gender-based Violence.
- Language Processing.
- Environmental Ethics





School of Infrastructure (SIF)



About the School

School of Infrastructure at IIT Bhubaneswar has come up to dedicate its excellence in engineering education, creation of knowledge, innovation in research and leadership in professional services. The mission of the School is to offer an unbounded academic and research environment in undergraduate, postgraduate and doctoral programs. The academic activities of the School emphasize on a comprehensive understanding of fundamental principles, the development of creative ability to handle the challenges of real-world Civil Engineering problems, and the analytical ability to solve problems having interdisciplinary in nature. Our goal is to do research in challenging engineering problems and provide efficient engineering solutions in the various sub-disciplines of Civil Engineering. The school has a strong focus in the research areas of Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transportation Engineering and Water Resources Engineering.

Presently the School offers programs as follows:

B. Tech. in Civil Engineering, Dual-degree B. Tech
in Civil Engineering + M. Tech. in Environmental
Engineering, Dual-degree B. Tech in Civil Engineering
+ M. Tech. in Structural Engineering, Dual-degree B.

Tech in Civil Engineering + M. Tech. in Transportation Engineering

- M.Tech in Environmental Engineering, M.Tech. In Structural Engineering, M. Tech. in Transportation Engineering, M.Tech. In Water Resources Engineering and M.Tech. in Geotechnical Engineering
- Ph.D. Programmes

The Department is actively involved in basic and applied research and consultancy and provides high quality technical advisory support through various R & D projects and consultancy to various organizations. The School also encourages its students to engage in extracurricular activities, promotion of team spirit, and refining their budding managerial skills.

Statistics:

- Number of Faculty: 23
- Number of Ph.D. scholars enrolled at present: 44
- Number of Ph.D. scholars graduated in 2022-23:7
- Number of M.Tech students: 70
- Number of Dual Degree students: 56
- Number of B.Tech students: 223
- No. of publications: 128
- No of Ongoing Sponsored Research Projects for 2022-23:12

State of the Art Facilities

The School is having an Advanced Computational Laboratory facility with modeling and simulation packages like Staad Pro, Staad Pro Foundation, PLAXIS 3D, ABAQUS, HYDRUS 3D, VMODFLOW, Matlab, AutoCAD and Gid for practical training in handling real-world civil engineering problems.

The Environmental Engineering Laboratory of the School is equipped with state-of-the-art equipment like Ion chromatograph, Double beam UV visible spectrophotometer, HPLC, TOC analyzer, high speed centrifuge, respiratory BOD analyzer, AAS, GC, Freeze Dryer, Radiometer, UV-Vis. Spectrophotometer, Zeta Potential cum Particle Size Analyzer, etc. for carrying out various sophisticated analyses of water and wastewater.

The Geotechnical Engineering Laboratory houses advanced instruments such as Testing frames with O-ring, large sieve shakers, GPR, Cyclic Triaxial Setup, Laser Profilometer, Flexible Wall Permeameter, Geotechnical centrifuge, Geosynhtetics testing apparatus, Controlled humidify chamber, Device for thermal property, Impedance analyzer, Swelling pressure apparatus, Laser sensing system etc.

The Structural Engineering and Concrete Technology Laboratories house state-of-the-art facilities such as Dynamic Actuators, Shake Table, sub-sonic wing tunnel, Servo Controlled Compression Testing Machines, NDT Equipment, Corrosion Analyser, etc. for analysis and evaluation of various types of civil engineering structures.

The Transportation Engineering Laboratory is equipped with state-of-the-art instruments to carry out advanced experiments and simulations works such as bituminous mix design, pavement evaluation, rutting measurement, evaluation of multi-modal urban transportation network, traffic flow etc. The Laboratory facility houses sophisticated instruments such as Dynamic Shear Rheometer, Repeated Load Triaxial Test, Wheel Tracking Machine with Roller Compactor, Superpave Gyratory Compactor etc. Besides the lab has a computational facility for those working in the Transportation System Planning and Traffic Engineering field.

The Water Resources Engineering Laboratory is capable of carrying out various experiments and simulations relating to fluvial hydraulics, flow through submerged and emergent vegetation. The laboratory is equipped with state-of-theart equipment like 20 m recirculating hydraulic flume, down looking and Side looking Acoustic Doppler Velocimeters, Acoustic Doppler Profilers, Recirculating Tilting Flumes with Wave Generator and sensors like Flow Visualization Apparatus, MIKE_SHE software, Water Depth Recorder, Digital Flowmeter, etc.

Laboratories

The School of Infrastructure currently runs with eight wellequipped undergraduate and postgraduate laboratories as follows:

- Advanced Computational Laboratory
- Concrete Technology Laboratory
- Engineering Mechanics Laboratory
- Environmental Engineering Laboratory
- Geotechnical Engineering Laboratory
- Geo-environmental Engineering Laboratory
- Groundwater Hydrology Laboratory
- Hydro-meteorology Laboratory
- Soil Dynamics Laboratory
- Structural Engineering Laboratory
- Surveying Laboratory
- Transportation Engineering Laboratory
- Water Resources Engineering Laboratory

All of the above laboratories are equipped with modern facilities to carry out high-end research works in any of the micro specializations of the Civil Engineering field. In addition to the state-of-the-art laboratories, the classrooms are equipped with multimedia projectors. Besides, the school is having 20 faculty cabins, Five classrooms, 80 desktop computers, One seminar room, and one classroom with an audio-visual facility, recreation room, and conference room.

The school is collaborating with various agencies/ industries like Airport Authority of India Ltd, NBCC, Vedanta Limited, IDCO, Voltas Ltd, Odisha Mining Corporation (OMC), RWSS (Govt. of Odisha) and Tata Steel Ltd in research and consultancy work. Currently, the school is working on 12 research projects. The school has 3 on-going SPARC proposals. Besides this, our faculty presents regularly research papers at conferences in India & abroad, conducts workshops and conferences for the dissemination of research findings. Recently, lectures from foreign faculty were organized from 22 February - 14 April 2021 for UG Freshers, All B.Tech and Dual degree students in Civil Engineering to provide them updated knowledge and expose them to various disciplines of civil engineering.

Awards and Honors

- Dr. Manaswini Behera received Odisha young scientist award from Odisha Bigyan Academy on 4th May 2022
- Praveen Shakyawar and Shivam Singh are awarded the best paper award at TPMDC, IIT Bombay.
- Dr. Remya N received research grant of Rs. 1.02 crore from WTI, DST for Pilot-scale demonstration of solarpower driven microwave pyrolysis unit for upcycling conversion of end-of-life RO membrane material into biofuels.
- Ms. Maria James, a research scholar of SIF, received an award for best dissertation in Ocean Science and Technology in India from The Ocean Society of India for her M.Tech. Project work at IIT Bhubaneswar on "Seismic Response of Jacket Supported Large Offshore Wind Turbines in Deep Water."

Short-term programs and visits

 Prof. Taavo Tenno of University of Tartu, Estonia made a 2-days visit to School of Infrastructure, IIT Bhubaneswar on 5-6 December 2022. Prof. Tenno is involved in collaborative project work 'Saraswati 2.0'

- GIAN course on Nanotechnology in Water and Wastewater Treatment (NWWT) was conducted by Dr. Remya N between 4-9 April, 2022 with foreign expert Prof. Ruey-An Doong, NTHU Taiwan
- One day workshop on Cold Mix Asphalt Technology was successfully organised by the School of Infrastructure on 3rd September 2022.
- School of Infrastructure organized a two-day REWARD-Hydrology training workshop on 20-21 March, 2023.
- Students of KV no. 3 Bhubaneswar visited various school laboratories on 27th March.
- M.Tech. and Ph.D. students visited Mahanadi and Kathjori rivers to study the scour-affected foundations for bridges and transmission towers.
 - The school is collaborating with various agencies/ industries like Airport Authority of India Ltd, NBCC, IPRCL, Vedanta Limited, IDCO, Voltas Ltd, Odisha Mining Corporation (OMC), RWSS (Govt. of Odisha), Mahanadi Coalfields Ltd. (MCL) and Tata Steel Ltd. in research and consultancy work. Currently, the school is working on 20 research projects. The school has 3 on-going SPARC proposals. Besides this, our faculty presents regularly research papers at conferences in India & abroad, conducts workshops and conferences for the dissemination of research findings.





School of Mechanical Sciences (SMS)

About the School

The School of Mechanical Sciences at IIT Bhubaneswar endeavors to be both globally competent and locally relevant.

Presently the School offers programs as follows:

- B. Tech. in Mechanical Engineering, B. Tech. in Mechanical Engineering + M. Tech. in Mechanical System Design, B. Tech. in Mechanical Engineering + M. Tech. in Thermal Science & Engineering, B. Tech. in Mechanical Engineering + M. Tech. in Manufacturing Engineering.
- M. Tech. in Mechanical System Design.
- M. Tech. in Thermal Science and Engineering.
- M. Tech. in Manufacturing Engineering.
- Ph.D. Programmes

Thrust areas of the School include Systems design, Energy & Environment, Advanced Manufacturing, Autonomous Robotics, Agricultural automation and Product Design. The faculty members of the school are also involved in basic research in their own areas of specialization while also coming together to blend their shared expertise in creating technologies, products and processes that will enrich both the national and local economy. The school sees its role in nation-building via three important avenues of contribution – building of (i) human, (ii) knowledge and (iii) wealth capitals through the creation of a comprehensive idea-to-industry cycle.

Statistics:

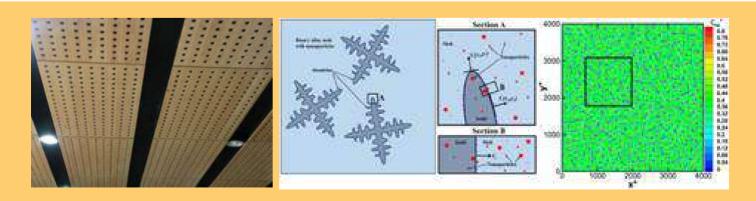
- No of faculty: 25
- No. of B. Tech Students: 244
- No. of Dual degree: 201
- Number of M. Tech. Students: 98
- No. of Ph.D. Students as on (2022-23): 36
- No. of Ph.D. Students graduated (2022-23): 26
- No. of publications:94
- No of Ongoing Sponsored Research Projects for 2022-23:22

State of the Art Facilities

The Advanced Product Development Laboratory houses an advanced Stratasys 3D-printer, high-end FORTUS 400 FDM based rapid prototyping machine and a high accuracy 3-D Optical Profilometer.

The thermo-fluid laboratory has NEXA PEM fuel cell training system, Mach-Zehnder Interferometer for visualization of various heat transfer phenomena, Hotwire anemometer, 2D time-resolved PIV system, and a Differential scanning thermometer.

The advanced manufacturing laboratory has various inhouse developed equipment such as 400W Fiber laser micro workstation, Laser-Milling Hybrid processing and a Pulsed Micro-Electroforming. Besides, the lab also houses CNC Router with digitizer for Reverse Engineering, CNC milling, Wire EDM and Gear hobbing machine.



Laboratories

The school has the following laboratories with major equipment's:

Advanced Manufacturing Laboratory

Optical Profilometer, Profile projector, Grinders, Laserbased Micro-machining Workstation.

CAD/CAM/CAE Laboratory

The school has a computational laboratory consisting of 45 workstations installed with various software packages like Ray Tracing software, ANSYS, SolidWorks, NASTRAN, Hyper works, Pro-E, CATIA, ADAMS, COMSOL, MATLAB, Lab VIEW, ASAP-PRO, DELMIA, Smart Team and Tecplot360

Sense & Process Laboratory

Sound Impedance Tube, Handheld Sound Analyzer.

Materials Testing Laboratory

Hardness testing machines: Rockwell, Brinell, Vickers, Spring testing machine, Torsion testing machine, Rotary bend fatigue testing machine, Erichsen cupping test machine, Photo-elastic bench, Izod-Charpy impact tester and 100 ton Universal testing machine.

Opto-Thermal Lab

Mach-Zehnder Interferometer setup

Machine and Mechanism Laboratory

Epicyclic gear train apparatus, Static and Dynamic Balancing, Whirling of shaft, Gyroscope, Governors, Anti-Friction bearing, Hydrodynamic lubrication, Basic kinematics demonstrations.

Fluid Dynamics Laboratory

4 Channel hot wire anemometer, 70 cfm 13 bar screw type compressor experimental set ups for measurement of fluid viscosity, Flow measurement equipment, Measurement equipment for forces on immersed bodies, Schlieren flow visualization setup, Kaplan turbine, 3 axis force sensor, Pitot probe with traverse and a 2D time resolved PIV.

Micro-fluidics Laboratory

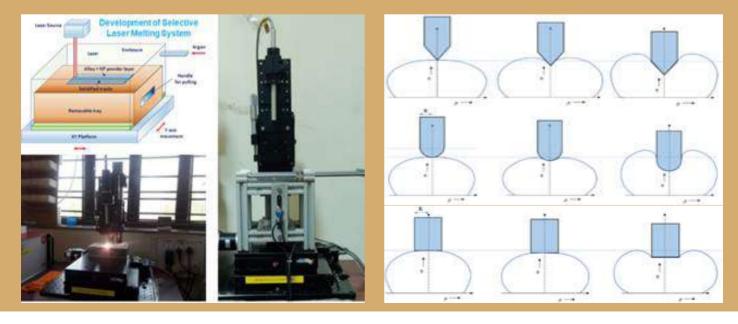
High speed cameras, Inverterted flouroscence microscope, Inverted microscope, Syringe pumps, Droplet dispenser and High end work stations.

Heat Transfer Laboratory

Radiation Heat Transfer Unit, Unsteady State Heat Transfer Unit, Combined Cycle Refrigeration Unit with Cycle Inversion Valve, Critical Heat Flux Boiling Heat Transfer Unit, 5Å~3 Tube Bundle Boiling Heat Transfer Testing Setup, PCM Based Electronic Chip Cooling Setup, Contact angle goniometer, Differential scanning thermometer, Solar, Filament drowse condensation unit.

IC Engine Laboratory

Variable compression ratio engine, Axial flow gas turbine unit, Flame propagation and stability unit, NEXA fuel cell



training system, 4 stroke 4 cylinder CRDi Diesel engine with open ESU and Exhaust gas analyzer.

Advanced Product Development Laboratory

Fused deposition method based rapid prototyping production system, Optical three dimensional (3D) profiler system.

Artificial Intelligence and Mechatronics Lab

Stewart platform, Humanoid robot platforms (Bioloid and Lamark), Manipulator arm, Hexapod robot, Four wheeled robots, Tabletop CNC milling and Turning machines.

Advanced Manufacturing Laboratory

Optical profilometer, Grinders, Laser-based micromachining workstation.

Metrology Laboratory

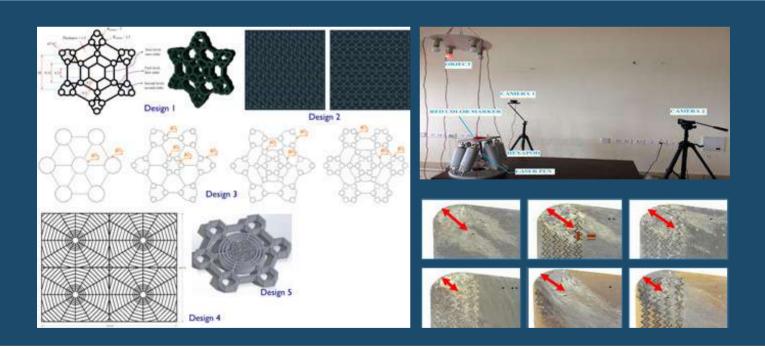
Profile projector, Height master, Precision surface plate, and other measuring equipment's.

CWF Laboratory

TIG and MIG welding, General purpose belt grinder and surface polisher, Hydraulic specimen mounting press, Induction furnace, Resistance furnace, Foundry equipment and machinery, Muffle furnace, 80 Ton hydraulic press.

Machine Tools and Machining Laboratory

Wire cut EDM, Ultrasonic drilling cum milling machine, CNC vertical milling center, Master gear hobbling, Radial drilling machine, Industrial grinder, Lathe machine, Milling machine, Hydraulic surface grinder, Die sinking EDM, Piezoelectric type 6-component dynamometer, Lapping machine, Talyrond (surface roundness measurement).



School of Minerals, Metallurgical and Materials Engineering (SMMME)

About the School

The School of Minerals, Metallurgical and Materials Engineering at IIT Bhubaneswar, established in 2012, is a unique initiative where minerals, metals and materials have come into a collaborative existence with a mission to be locally relevant and globally competitive. Presently the School offers programs as follows:

- B. Tech. in Metallurgical and Materials Engineering,
- B. Tech.-M. Tech. Dual degree in Metallurgical and Materials Engineering,
- M. Tech. in Metallurgical and Materials Engineering and
- Ph.D. Programme

Located in the state of Odisha, one of the most mineral rich states of India, the school is aware that the maximum economic benefit from a mineral could be achieved when economically transformed to its final product leading to ultimate benefit.

Research

The school's thrust areas are: Transport and Structural Materials, Energy Materials and Devices, Strategic and Functional materials, various manufacturing processes (including Additive Manufacturing). The focus of school activities is therefore multi-directional with an emphasis on both teaching and research. In this regards, the school has drawn a road-map to progress via partnership with the Institute of Minerals and Materials Technology (CSIR-IMMT) at Bhubaneswar and student and faculty exchange with Warwick Manufacturing Group (WMG) at Warwick University, UK and Shanghai Jiao Tong University, China. The School has also received a generous endowment of 30 million INR from MGM Group to establish a permanent Chair Professorship.

Statistics

- No of faculty: 12
- HPC computer clusters: 2

- No. of major equipment: 61
- Number of Sponsored projects (on going): 19
- Number of consultancy projects: 2
- Number of patents granted (till date): 01
- Number of patents pending: 01
- No. of symposiums organized: 01
- No. of student awards: 01
- No. of publications:46

State of the art Facilities

Successfully procured and installed the Hot pressing unit for consolidation and sintering of metal and alloys powders.

Laboratories

The School has been developing a number of laboratories to cater to undergraduate and postgraduate teaching and well as various research activities of the School and the Institute. Currently, it houses the following laboratories:

- Electrometallurgy and Thermodynamics Laboratory
- High Temperature Processing Laboratory
- Mechanical Testing Laboratory
- Metallography Laboratory
- Modelling and Simulation Laboratory
- Optical Microscopy Laboratory
- Physical Metallurgy Laboratory
- Powder Processing Laboratory
- Materials Characterization Laboratory
- Process Control and Instrumentation Laboratory
- Materials Processing Laboratory
- Welding Laboratory

The faculty members are engaged in sponsored projects from Science and Engineering Research Board, Department of Science and Technology, UGC-DAE Consortium of Scientific Research - Kalpakkam, Planning Coordination Department - Government of Odisha, Uchchatar Aviskar Yojana - MOE, National Aluminum Company, Naval Research Board and Ministry of Mines, Govt. of India. The school is actively providing technical consultancy services to industries such as Tata Sponge Iron Limited, Jindal Stainless Steels Ltd. and Pradeep Phosphates Ltd.

A workshop on Recent Advances in Materials and Mechanics (RAMM) - 2022

A two-day online workshop has been conducted on 12th-13th November, 2022. The theme of the workshop encompasses the wide spectrum of the recent developments in the design, fabrication, processing, characterization and mechanics of materials for energy, battery, next generation steels, high entropy alloys, nanomaterials and smart materials for structural and functional applications. A total of 20 speakers (from industry and academia) have presented technical talks in four focussed sessions. A total of 130 participants have registered, among which nearly 50% are faculty from various IITs, NITs and other engineering colleges.

Projects by Institute Faculty:

A research proposal on the topic "Conversion of natural mineral based tetrahedrite compounds into high performance thermoelectric devices used in the conversion of waste heat into electricity" with Dr. Sivaiah Bathula as PI was awarded a research grant worth 22.5 lakh INR during February 2023 from Ministry of Mines, Govt. of India. Seminars Given by Eminent Scientists in the areas of Materials Technology:

Key Note & Invited lectures delivered by School Faculty.

- Sivaiah Bathula, Keynote lecture delivered at UGC sponsored National Conference on "Advanced Functional Materials (NCAFDM-2023), 27-28th February 2023, Acharya Nagarjuna University, Guntur, Andhra Pradesh.
- Sivaiah Bathula, Invited Lecture delivered at SERB sponsored National Conference on Recent Advances in Functional Materials, 24-25th March 2023, Vignan's Foundation for Science, Technology & Research, Vadlamudi, Guntur, Andhra Pradesh
- Sivaiah Bathula, Aluminium-Cerium based alloys for high temperature applications, 76th Annual Technical Meeting of The Indian Institute Of Metals, Hyderabad, 13 - 16 November, 2022

SMMME building was inaugurated by Prof V.K. Tewari on September 4, 2022. The complete shifting of school laboratory and research equipment was completed in March 2023.

- Open house was conducted as a part of G20 on April 15-16, 2023.
- Prof. Brahma Deo, by donating Rs. 1 Crore from his personal savings, has established a Ph.D.
 Fellowship in the name and honour of his erstwhile iron and steel making subject Professor at IIT BHU, Professor RH Tupkary. A ph.D. Student has already joined in the current semester.



SMMME Building Inauguration (04.09.2022)





Open house was conducted as a part of G20 on April 15-16, 2023

Centres of Excellence

Virtual and Augmented Reality Centre of Excellence (VARCoE)



Virtual Reality and Augmented Reality (VR and AR) have massive innovation potential across a wide range of industries and research fields. This research and innovation is currently across a range of industries including – product and skill development, health and medical science, art and architecture, transport, construction, tourism, entertainment, education, and productivity software. For achieving goals of such great magnitude Government of Odisha, STPI, Philanthropists like Shri Subroto Bagchi and Ms. Susmita Bagchi and IIT Bhubaneswar have come together to start this CoE.

Objective:

The centerisintended to span a wide spectrum of disciplines with particular emphasis on interaction technologies including virtual, augmented and mixed reality as well as mobile computing, epigenetic and evolutionary robotics, and haptic communication. The center will engage in research, teaching and services for developing advanced methods and algorithms for near-real 3D user interfaces and exploratory data analysis in virtual environments. Emphasis will also be laid on application-driven, interdisciplinary research in collaboration with all the reputed institutions worldwide, and partners from industry, covering fields like defense, simulation science, production technology, product development, neuroscience, architecture, and medicine.

Our CoE highlights the growth & development of Augmented and Virtual Reality solutions for achieving the digital transformation. This CoE aimed at partnerships among industry, academia, R&D Labs and innovators. The following are the major objectives of IIT Bhubaneswar CoE.

- Give impetus to research, technology development, product development, technology incubation and entrepreneurship in Virtual & Augmented Reality and allied fields.
- Develop a state-of-the-art research, development and testing facility/laboratories for advanced algorithms, applications and methods in aid of Virtual and Augmented Reality for Immersive Visualization and allied areas.
- Develop application platforms for specific skill development programs based on the industry needs and relevance.
- Produce new generation of entrepreneurs and incubators, who are ready to reap the benefits of the incubation and start-up facilities.
- To create a core group of researchers in the area of AR/ VR.
- Applications of AR-VR in education including virtual labs (could be primary, secondary, collegiate and higher education)
- Application of AR-VR in skilling and skilling system development.
- Application of AR-VR in Biomedicine/Bio-engineering & health care applications.
- Immersive visualization.
- To create startup grants for select startups registered at Startup Center - IIT Bhubaneswar, STPI – Bhubaneswar and Startup – Odisha and a few for the most innovative projects from PAN India
- Joining Associations like Global Virtual Reality Association, subsequently creating a Chapter at Bhubaneswar.

Laboratory: 3D Visualization and Tracking lab of VARCoE

A Collaborative Programme between Ms. Susmita Bagchi, Govt. of Odisha, STPI, MEity.

A 3D visualization and tracking lab is a facility equipped with tools and technologies for creating three-dimensional models of objects and environments, and for tracking the movement and behavior of those objects in realtime. This type of lab can be used for a wide range of applications, such as studying the movement of animals or robots, simulating physical processes, or creating virtual environments for gaming or training. Some common tools used in a 3D visualization and tracking lab include motion capture systems, laser scanners, 3D printers, and virtual and augmented reality headsets.

The objective of establishing VARCoE 3D visualization and tracking lab is to impart training to the students in the emerging areas of Deep technology that is augmented and Virtual reality. The lab is equipped with Power wall, Head mounting display, Holo lens, Trackers, high end work station to run the augmented reality, virtual reality and mixed reality models to enable creation of models from experiential tourism to virtual training of dangerous situation like Fire and disasters.

This will facilitate content creation in ARVR domain, processing, analysis and testing of models which will augment curriculum to IIT students for research and education. The establishment of VARCoE lab will also provide an opportunity to the students, scholars and faculty members to carry out research in AR VR Field and to develop several advanced applications.

Further, the centre of excellence is also open to startups to be incubated and with mentorship and lab facility to commercialize their research and build companies and create jobs.

Collaboration

- HDFC bank MOU for ease of banking for start-ups.
- MoU for Co incubation with IIT Kanpur incubation centre.
- MoU with Internshala for getting freemium services to get interns

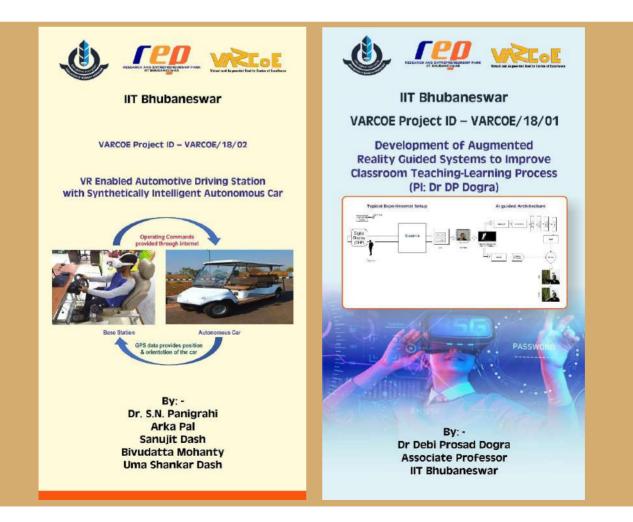
- MoU with Indian bank for Collateral free loan.
- MoU with Arthayan for free digital assets
- MoU with Mizoram university for co incubation
- MoU with Oil India for incubator for Oil India supported start-ups.
- MoU with Entrepreneurship Development council
- New mentors from Industry are being called to register.
- Taken subscription from YNos to provide the startups and other student beneficiary a statistics of the ecosystem along with connection in the investment and other required areas.
- Promoting VARCoE to start-ups of Odisha in various forums is being initiated with local associations and groups like Business Club of Entrepreneurs and Odisha Corporate Foundation.

Projects

- Development of Augmented Reality Guided Systems to Improve Class Room Teaching-Learning Process (PI: Dr. DP Dogra) [Project ID: VARCOE/18/01]
- · VR Enabled Automotive Driving Station with

Synthetically Intelligent Autonomous Car (Pl. Dr. SN Panigrahi) [**Project ID: VARCOE/18/02**]

- Portable Augmented Reality Solution for Nondestructive Testing and Life Time Prediction of Oil, Natural Gas and Steel Industries [Pl. Dr KR Mangipudi) [Project ID: VARCOE/18/03]
- Virtual and Augmented Reality based Training Modules for Metallurgical and Materials Engineering Students (PI Dr. S. Gollapudi) [Project ID: VARCOE/18/04]
- Augmented Reality Guided Poetry Writing (PI. Dr M. Satpathy) [Project ID. VARCOE/18/05]
- Development of Augmented Reality based Weigh in Motion Sensor (PI: Dr R Jha) [Project ID: VARCOE/18/06]
- Design and Development of an Industrial Robot Controller using AR/VR Technology (PI: Dr V. Panduranga) [Project ID. VARCOE/19/01]
- Development of a Composite Machine Learning Scheme to detect Lung Cancer and VR based augmentation for better diagnosis (PI: Dr K. Sahu) [Project ID. VARCOE/19/02]
- Smart Grid Visualization Application of Virtual Reality (PI: Dr S. Samantray) [Project ID: VARCOE/19/03]



Incubatees

S. N.	START UP	Grant amount
1	AROVR Pvt ltd	4,00,000
2	VR Guides Pvt Ltd	10,00,000
3	Anees Fathima and team	1,00,000
4	Dr. P. Chandrasekhar	8,00,000
5	Dessirinx Pvt Itd	10,00,000
6	Pleb C innovation Pvt Ltd	9,00,000
7	Arvisio Pvt Ltd	10,00,000
8	Primp Technology Pvt.Itd	NA
9	Vernacular medium Pvt Ltd	NA
10	Pattashree fabric Pvt. Ltd.	NA
11.	House of Krifin	NA

Challenges



74 applications were received and 29 proposals were shortlisted for workshop and presentations.

OCPARVR 2.0 Winner List

SI. No	Title of Presentation and Name of the Winner	Prize
1	Title of the presentation: AR for Smart Mobility Team Members: Mr. AASHISH BHARUDE	1st Prize: Rs.50,000/-
2	Title of the presentation: Metaverse Driven Edtech Team Members: Mr. Subrat Kumar Rout, Mr. Sidharth Shekhar, Mr. Lokesh Kumar Behera	2nd Prize: Rs.30,000/-
3	Title of the presentation: AuReal- AR app for Enhanced Tourism Team Members Ms. Keerthi Sreemarrapu, Mr.Akshat Jain, Mr. Juzar Batterywala, Ms. Samridhi Sinha	3rd Prize: Rs. 20,000/-

Consolation Prize

SI. No	Name of the Winner and proposal	Prize
1	Harsh Vardhan: HarSar FARMAR	Consolation prize Rs 5000/-
2	Dipesh Gaurav: Limited ARVR Games in Regional languages	Consolation prize Rs 5000/-
3	Samridhi Soor: VR for Arts, Culture, and Music	Consolation prize Rs 5000/-



S K Dash Centre of Excellence of Biosciences and Engineering and Technology (SKBET)

S K Dash Centre of Excellence of Biosciences and Engineering and Technology (SKBET) was established in IIT Bhubaneswar in 2014 with a generous endowment grant from Dr. Dash Foundation, USA to carry out research on probiotics and broader areas of biology, engineering, and technology. The center has world class laboratory with state-of-the-art instrumentation facility to carry our research on microbiology, cell biology, molecular biology, and bioinformatics. Apart from research the center provides training to undergraduate students and helps in capacity building of the country.

The SKBET center has a goal of developing probiotics nutraceuticals and pharmaceuticals that can be used to improve immunity, reduce ageing processes, and to treat various gastrointestinal disorders such as IBD, IBS, Gastrointestinal cancer, psychological disorders etc. In corroboration with that goal, we have screened various potential probiotic strains for their probiotic properties and successfully identified nine novel probiotic strains that are at par with an established probiotic strain, LA DDS1 with respect to all probiotic attributes. We have formulated 16 synbiotics which has the ability to inhibit synergistically multi drug resistant pathogenic type strains. In last five years, 22 scientific articles have been published from the SKBET center. Till 2022 summer we have guided 32 M. Sc. interns to complete their dissertations in the center and make them skilled in probiotics and allied research. The probiotics strains developed at the center has been found to be safe in mammalian cell systems and mouse models. The human trial of the strains is ongoing at AIIMS Bhubaneswar. Further studies with these probiotic strains in mouse models for prevention/treatment of obesity, diabetes, and various inflammatory disorders are currently going on. Sixteen synbiotics will be studied in cell culture, and mouse models followed by clinically trialed to reduce/ treat the geriatric, inflammatory, and gastrointestinal disorders. The center is thriving and advancing to discover next generation probiotics strains and innovate new probiotics products which can be used as nutritional supplements as well as pharmaceutic intervention of various gastrointestinal and inflammatory disorders. The center is also working to innovate formula with nano particles and probiotics to treat pneumonia and infection in airway passages.





Design LISH INNOVATION CENTRE INNOVATION CENTRE

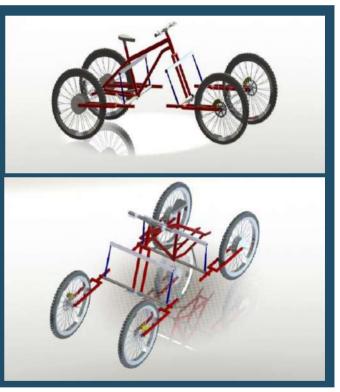
Design Innovation Centre (DIC) has been set up under National Initiative for Design Innovation (NIDI) scheme which is launched to work as a force multiplier that can help the country move up the value chain by making Indian industry globally competitive. It is an initiative under Ministry of Education (MoE) to encourage design-based approach focused on innovation and creativity. Under this scheme along with twenty Design Innovation Centers, one Open Design School (ODS) & a National Design Innovation Network (NDIN) also has been set up to maximize the reach of design education.

The setting up of a Design Innovation centre (DIC) at IIT, Bhubaneswar under the National Initiative for Design Innovation (NIDI) scheme is a good opportunity for the introduction of design learning and innovation in eastern India. Design Innovation Center, IITBBS has involved itself in many progressive involvements since 2015 to till date in the field of creativity. It infuses a culture of innovative thinking in the budding engineers to undertake projects which lead to development of educational and community driven products primarily for children but of course, not limited to there.

Ingenious Project/Creativity during 2022-23

1. Design and Development quadricycle

Designing purpose of this Quadricycle is to manufacture an off road vehicle that could help in transportation in hilly areas, farming field and as a reliable experience for a weekend enthusiast. In order to accomplish this task, different design aspects of a Quad Bike. Vehicle were analyzed, and certain elements of the bike were chosen for specific focus. There are many facets to an offroad vehicle, such as the chassis, suspension, steering, drive-train, and braking, all of which require thorough design concentration. The points of the car I decided to specifically focus on were the chassis, drive-train, and suspension. The most time and effort went into designing and implementing these components of the vehicle because it was felt that they most dramatically effect the off-road driving.



2. Development of Smart Dustbin

Dustbin is a common household need these days. To make it an electronically access able one, a prototype model has been designed by DIC initially.

To make it function-able into an actual one, servo motor, arduino, breadboard & IR sensor etc. has been used. It is working satisfactorily since its successful fabrication.



3. Design and manufacturing of mono-wheel bicycle trailer

This invention includes a single wheel trailer for a bicycle, said trailer including a mainframe having a generally upright seat post, a trailer wheel rotatably mounted rearwardly of the seat post, a cross bar connected to and extending forwardly from the seat post, the crossbar having a forwardly directed elongated extension having a distal end and a flexible connector on said distal end for effecting a connection, when in use, to a bicycle disposed forwardly of the trailer, said flexible connector permitting freedom of movement about generally transverse pitch and yaw axes of the bicycle and trailer relative to one another.



4. Development of Amplifier Box Design and manufacturing

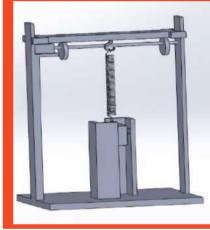


6. Development of 3D Design

DIC also Progress the different 3D Model of different school at IIT Bhubaneswar

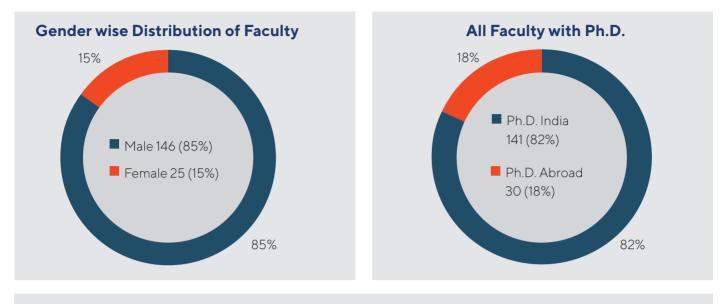


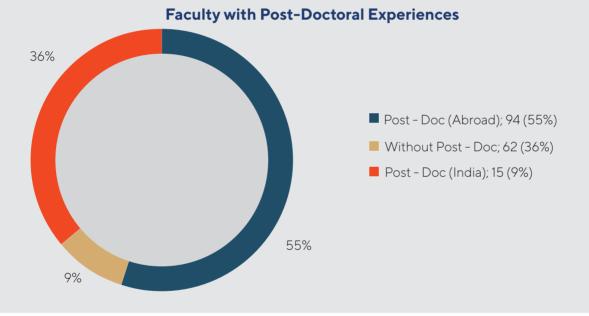
5. Development Experimental setup for demonstrating dynamical

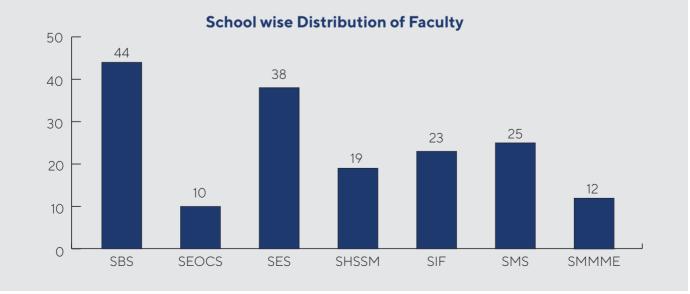




Our Faculty







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S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
Sch	ool of Basic Sciences		
1.	Prof. P. V. Satyam Professor satyam@iitbbs.ac.in	Institute of Physics/ Utkal University, Bhubaneswar, Odisha, 1997	Surface and interfaces, electron microscopy, experimental condensed matter physics, energy Materials.
2.	Prof. Saroj Kumar Nayak Professor nayaks@iitbbs.ac.in	Jawaharlal Nehru University, 1995	First Principles Molecular dynamics Simulations, Nanostructures, Quantum transport, Quantum Biology
3.	Prof. Sujit Roy Professor sroy@iitbbs.ac.in	IIT Kanpur,1987	Organometallic Chemistry, Homogeneous Catalysis
4.	Prof. T. V. S. Sekhar Professor sekhartvs@iitbbs.ac.in	IIT Madras, 1995	Numerical Methods; Computational Fluid Dynamics
5.	Prof. V. R. Pedireddi Professor vr.pedireddi@iitbbs.ac.in	University of Hyderabad, 1993	Solid State Chemistry; Supramolecular Chemistry; Self-Assembly of Biological, Organic and Organic inorganic Ensembles
6.	Dr. Abhijit Datta Banik Associate Professor adattabanik@iitbbs.ac.in	IIT Kharagpur, 2007	Queueing Theory, Applied Probability Models, Stochastic Modelling and Simulation, Stochastic Models in Operations Research and their application in Communication systems, Transportation, Manufacturing, Production and Inventory Systems.
7.	Dr. Tabrez Khan Associate Professor tabrez@iitbbs.ac.in	University Of Mumbai, 2009	Synthetic Method Development; Natural products and natural product inspired bioactive molecule synthesis
8.	Dr. Akhilesh Kumar Singh Associate Professor aksingh@iitbbs.ac.in	IIT Kanpur, 2007	Fluorogenic and Chromogenic Chemosensors; Magnetic Materials and MRI Contrast Agents; Synthesis and Characterization of Task Specific Ionic Liquids and Their Application
9.	Dr. Akshay Kumar Ojha Associate Professor akojha@iitbbs.ac.in	Utkal University, 1997	Soft computing; Optimization Theory (Geometric programming and Fractional Programming; Data Mining and Portfolio Optimization Worked up to 31.12.2022
10.	Dr. Anasuya Roychowdhury Associate Professor aroychowdhury@iitbbs.ac.in	University of Texas Medical Branch, 2009	Chemo mechanistic physiology and regulation of class of enzyme ATPase; Role of ATPase in Cancer Biology; Role of ATPase in Biological Clock
11.	Dr. Ashis Biswas Associate Professor abiswas@iitbbs.ac.in	Bose Institute, 2006	Elucidation of structure-function relationships in small heat shock proteins and its importance in human diseases (leprosy and tuberculosis) using biochemical and biophysical techniques.; Investigating the effect of various post- translational modifications on the eye lens crystalline proteins and their role in developing cataract formation in human lens using biophysical methods.; Elucidating the mechanism behind the interaction of metal complexes (anti- cancer agents) with DNA and proteins using various biochemical techniques.
12.	Dr. Chandrasekhar Bhamidipati Associate Professor chandrasekhar@iitbbs.ac.in	Institute of Physics, 2006	Heat Engines, Thermodynamics and Statistical Mechanics; Black Holes; String Theory

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
13.	Dr. Kari Vijayakrishna Associate Professor kvijayakrishna@iitbbs.ac.in	IIT Madras, 2006	Synthesis of task-specific ILs and polymerizable IL monomers; Synthesis of Chiral Polymers and their applications in chiral induction; Synthesis of Achiral and Chiral Resins and their applications in synthesis; PIL stabilized metal nanoparticles and their applications; Polyelectrolyte-DNA interaction studies; PILs for gas separation membranes; Synthesis of MIPs and resins for nuclear waste treatment; Synthesis of (RAFT derived) ionic, pH, temperature and solvent responsive homo- and block copolymers towards their self-assembling for drug delivery
14.	Dr. Malay Kumar Bandyopadhyay Associate Professor malay@iitbbs.ac.in	Jadavpur University, Calcutta, 2008	Open Quantum System; Non-equilibrium Statistical Mechanics; Nanomagnetism
15.	Dr. Niharika Mohapatra Associate Professor niharika@iitbbs.ac.in	IIT Bombay, 2006	Multiferroics; Thermoelectrics; Topological phases of matter
16.	Dr. Rajan Jha Associate Professor rjha@iitbbs.ac.in	IIT Delhi, 2007	Optical Devices; Plasmonics; Fiber Optic
17.	Dr. Sabyasachi Pani Associate Professor spani@iitbbs.ac.in	IIT Kharagpur, 2004	Variational Inequalities and Complementarity Problems; Applied Functional Analysis; Optimization Techniques
18.	Dr. Sasmita Barik Associate Professor sasmita@iitbbs.ac.in	IIT Guwahati, 2007	Combinatorial Matrix Theory; Graph Theory;
19.	Dr. Satchidananda Rath Associate Professor srath@iitbbs.ac.in	Institute of Physics Bhubaneswar, 2006	Semiconductor nanosheets, Dilute magnetic semiconductor, Metal clusters, graphene, Optical properties, fast transitions, Raman scattering, Small angle x-ray scattering, Rheology; Solar cell, Light Emitting Diodes
20.	Dr. Seema Bahinipati Associate Professor seema.bahinipati@iitbbs.ac.in	University of Cincinnati, Ohio, U.S.A., 2008	Experimental High Energy Physics [B Physics, CP Violation, Beyond Standard Model Physics]
21.	Dr. Shantanu Pal Associate Professor spal@iitbbs.ac.in	IIT Bombay, 2006	Development of novel methodology and total synthesis of biologically active natural products; Development of chemically modified small molecules as therapeutic agent; Synthesis of modified nucleic acid as anticancer or antiviral drug.
22.	Dr. Shyamal Chatterjee Associate Professor shyamal@iitbbs.ac.in	The University of Heidelberg, Germany, 2007	Experimental atomic, molecular and surface physics; Nanomaterials; Biomolecules, clusters
23.	Dr. Snehasis Chowdhuri Associate Professor snehasis@iitbbs.ac.in	IIT Kanpur, 2005	Theoretical Chemistry; Statistical Mechanics; Molecular Dynamics Simulation
24.	Dr. Soumendra Rana Associate Professor soumendra@iitbbs.ac.in	IIT Bombay, 2007	G-protein Coupled Receptor Biology; Molecular Modelling and Computational Biology; Design, Synthesis and Characterization of Peptides

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
25.	Dr. Srikanta Patra Associate Professor srikanta@iitbbs.ac.in	IIT Bombay, 2005	Metal Mediated Organic Transformations (Catalysis); Metal Based Anticancer Drugs; Functional Materials, Luminescent Materials, Sensors
26.	Dr. Tarakanta Nayak Associate Professor tnayak@iitbbs.ac.in	IIT Guwahati, 2007	Complex Dynamics; Fractals; Independence polynomials and independence fractals of graphs
27.	Dr. Vasudeva Rao Allu Associate Professor avrao@iitbbs.ac.in	IIT Madras, 2010	Complex Analysis; Geometric Function Theory; Harmonic Mappings in the Plane.
28.	Dr. Arpan Dutta Assistant Professor arpandutta@iitbbs.ac.in	University of Missouri- Columbia , 2018	Valuation Theory; Algebraic Geometry; Commutative Algebra.
29.	Dr. Palas Roy Assistant Professor palasroy@iitbbs.ac.in	Tata Institute of Fundamental Research (TIFR), Mumbai, 2018	Ultrafast photodynamic of organic semiconductors using femtosecond electronic and vibrational spectroscopy
30.	Dr. Mahendra Kumar Gupta Assistant Professor mkgupta@iitbbs.ac.in	IIT Madras, 2016	Control Theory, Linear Algebra & Matrix Theory, Observer design, Differential-Algebraic Equations (Descriptor Systems), Design of Input and Output Feedback
31.	Dr. Neelam Saikia Assistant Professor neelamsaikia@iitbbs.ac.in	IIT Delhi, 2016	Number-Theory: Hypergeometric functions; Elliptic curves; Modular forms; Distributions to Algebraic Varieties over random finite fields; Kloosterman sums.
32.	Dr. Tuhin Patra Assistant Professor tuhinpatra@iitbbs.ac.in	IIT BOMBAY,2017	Photocatalysis, Synthetic Organic Electrochemistry, Flow Chemistry
33.	Dr. Akash Ashirbad Panda Assistant Professor akashpanda@iitbbs.ac.in	IISER Thiruvananthapuram, Kerala, 2020	Stochastic analysis of Partial Differential Equations (SPDEs) Weak and Strong Approximation (Numerical analysis) of SPDEs Wellposedness and Large Deviation theory of SPDEs Homogenisation of SPDEs
34.	Dr. Sunil Kumar Prajapati Assistant Professor skprajapati@iitbbs.ac.in	IIT Delhi, 2013	Algebra
35.	Dr. Nirmalendu Acharyya Assistant Professor nirmalendu@iitbbs.ac.in	IISc. Bangalore, 2015	Mathematical physics; Open quantum systems; Biosensing
36.	Dr. Pramod Padmanabhan Assistant Professor ppadmana@iitbbs.ac.in	Syracuse University, 2012	Physics on Noncommutative Spacetimes
37.	Dr. Kousik Samanta Assistant Professor kousik@iitbbs.ac.in	Texas A&M University, College Station, USA, 2009	Quantum Chemistry; Scattering theory; Mixed quantum-classical dynamics
38.	Dr. Hemant Kumar Assistant Professor hemant@iitbbs.ac.in	IISc. Bangalore, 2014	Computational condensed matter; Electronic and magnetic properties of 2D materials; Functional materials; Energy storage; Chromatin folding and DNA transcription

S.N .	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
39.	Dr. Indrajit Jana Assistant Professor ijana@iitbbs.ac.in	Univ. of California, Davis, 2017	Probability Theory, Random Matrix Theory
40.	Dr. Avijit Kumar Assistant Professor avijitkumar@iitbbs.ac.in	University of Twente, the Netherlands, 2013	Two-Dimensional Materials; Metal Organic Frameworks (MOFs); Molecular Assembly; Molecular Electronics; Scanning Tunneling Microscopy (STM); non-contact Atomic Force Microscopy (nc-AFM). Worked up to 30.06.2021
41.	Dr. Bankim Chandra Mandal Assistant Professor bmandal@iitbbs.ac.in	University of Geneva, Switzerland, 2014	Numerical Analysis, Scientific Computing, Partial Differential Equations, Domain Decomposition Methods
42.	Dr. Aneesh M. Assistant Professor aneesh@iitbbs.ac.in	IIT Kanpur, 2016	Operator theory; Operator dynamics; Functional analysis
43.	Dr. Abhishek Chowdhury Assistant Professor achowdhury@iitbbs.ac.in	Harish Chandra Research Institute (DAE), Allahabad, 2016	String Theory; Black Holes; QFT; Moonshine
44.	Dr. Jiarul Midya Assistant Professor jimidya@iitbbs.ac.in	JNCASR BANGALORE, 2017	Equilibrium and non-equilibrium statistical mechanics: phase transitions critical phenomena and aging dynamic
Sch	ool of Earth, Ocean and C	limate Sciences	
45	Dr. Debadatta Swain Associate Professor dswain@iitbbs.ac.in	University of Pune, 2009	Satellite & Physical Oceanography; Ocean- Atmosphere Interactions & Modelling; Atmospheric Dynamics
46	Dr. Raj Kumar Singh Associate Professor rksingh@iitbbs.ac.in	IIT Kharagpur, 2009	Paleoclimatology and Paleoceanography; Marine Micropaleontology; Hydrogeology
47	Dr. Sandeep Pattnaik Associate Professor spt@iitbbs.ac.in	Andhra University, 2006	Tropical Meteorology; Monsoon, Cloud Physics; Extreme Events (e.g. Tropical cyclone, Heavy Rainfall, Lightning)
48	Dr. Sourav Sil Associate Professor souravsil@iitbbs.ac.in	IIT Kharagpur, 2012	Physical Oceanography; Ocean Circulation Modelling; Coastal Dynamics
49	Dr. Syed Hilal Farooq Associate Professor hilalfarooq@iitbbs.ac.in	IIT Bombay, 2010	Hydrogeochemistry; Geothermal Energy; Organic Geochemistry
50	Dr. Vinoj. Velu Associate Professor vinoj@iitbbs.ac.in	IISc Bangalore, 2009	Aerosol Cloud Climate Interactions; Satellite Remote Sensing, Radiative Forcing, Field Measurements; Monsoon and Climate Change, Climate Modelling
51	Dr. Kiranmayi Landu Assistant Professor kiranmayi@iitbbs.ac.in	IISc. Bangalore, 2008	Climate Dynamics; Tropical Meteorology; Extreme Weather events
52	Dr. Yengkhom Kesojit Singh Assistant Professor yksingh@iitbbs.ac.in	IIT Bombay, 2011	Structural geology and tectonics; geochronology; photogrammetry; GIS and remote sensing; Natural hazard and disaster management; Augmented reality and virtual reality.
53	Dr. Simontini Sensarma Assistant Professor simontini@iitbbs.ac.in	Jadavpur University/ CSIR-National Institute of Oceanography, 2018	Geochemistry and mineralogy of deep-sea sediments and Fe-Mn nodules

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
54	Dr. Nirupam Karmakar Assistant Professor simontini@iitbbs.ac.in	IISc. Bangalore, 2017	Space-Time Evolution of the Intraseasonal Variability in the Indian Summer Monsoon and its Association with Extreme Rainfall Events: Observations and GCM Simulations.
Sch	ool of Electrical Sciences		
55	Prof. Shreepad Karmalkar Professor & Director director@iitbbs.ac.in	IIT Madras, 1989	Semiconductor devices & Education
56	Prof. N. C. Sahoo Professor ncsahoo@iitbbs.ac.in	National University of Singapore, 2001	Renewable Energy Systems; Power System Optimization and Control; Control of Electric Drives
57	Prof. Chandrashekhar Narayan Bhende Professor cnb@iitbbs.ac.in	IIT Delhi, 2008	Renewable Energy, Distributed Generation; Power Quality, Custom Power Devices; Application of soft computing techniques to power systems
58	Prof. Manoranjan Satpathy Professor manoranjan@iitbbs.ac.in	IIT Bombay, 1997	Software Testing and verification; Advanced Computer Architecture; Programming Languages
59	Prof. Prasant Kumar Sahu Professor pks@iitbbs.ac.in	IIT Kharagpur, 2008	Optical Communication; Remote Sensing; Speech and Signal Processing
60	Prof. Pravas Ranjan Sahu Professor prs@iitbbs.ac.in	IIT Kanpur, 2006	Digital Communications, Mobile Communications, Receiver performance in fading channels.
61	Prof. Subhransu Ranjan Samantaray Professor srs@iitbbs.ac.in	NIT Rourkela, 2007	Power System protection; Smart-Grid; PMU and WAMs
62	Prof. Sudipta Mahapatra Professor sudiptam@iitbbs.ac.in	IIT Kharagpur, 1997	Parallel Implementation of ANN Models
63	Prof. Ashwini Kumar Nanda Visiting Professor ananda@iitbbs.ac.in	Texas A&M University, College Station, Texas, 1993	Computer Organization and Design, High Performance Computer Architecture, Cloud Computing, Parallel Applications, Performance Evaluation, Cyber Security
64	Dr. Barathram Ramkumar Associate Professor barathram@iitbbs.ac.in	Virginia Tech, 2011	Signal Processing; Wireless Communication; Bio- Signal Processing
65	Dr. Debalina Ghosh Associate Professor deghosh@iitbbs.ac.in	Syracuse University, Syracuse, NY, USA, 2007	Remote Sensing; Electromagnetic Engineering and Antennas; Radar Systems
66	Dr. Debi Prosad Dogra Associate Professor dpdogra@iitbbs.ac.in	IIT Kharagpur, 2012	Visual Surveillance and Computer Vision; Human- Computer Interface; Augmented Reality
67	Dr. Niladri Bihari Puhan Associate Professor nbpuhan@iitbbs.ac.in	Nanyang Technological University, Singapore, 2007	Image Processing; Biometrics; Biomedical Imaging
68	Dr. Padmalochan Bera Associate Professor plb@iitbbs.ac.in	IIT Kharagpur, 2011	Networks and System Security; Cryptography; Software Defined Networks

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
69	Dr. Sankarsan Mohapatro Associate Professor sankarsan@iitbbs.ac.in	IISc Bangalore, 2011	High Voltage Engineering; Industrial Application of High Voltage for Pollution Control; Renewable Energy Systems
70	Dr. Srinivas Bhaskar Karanki Associate Professor skaranki@iitbbs.ac.in	IIT Madras, 2012	Power Quality; DC Converters for Renewable energy sources; Power Electronics Applications to Power Systems
71	Dr. Vijay Sankar Pasupureddi Associate Professor vijay@iitbbs.ac.in	IIT Kharagpur, 2011	Analog, RF and Mixed-Signal VLSI Integrated Circuits and Systems; IC Design for Wireless and Wireline Communications; New Radio System Architectures for Next-Generation Wireless Standards; RF/Wireless System-on-Chip(SoC);
72	Dr. Anoop Thomas Assistant Professor anoopthomas@iitbbs.ac.in	IISc. Bangalore, 2018	Coding techniques; Algebraic Error Correcting Codes; Index Coding; Network Coding; Coded caching; Coded Distributed Computing
73	Dr. Chandrasekhar Perumalla Assistant Professor pcsekhar@iitbbs.ac.in	IIT Delhi, 2014	Integration and Control of Renewable Energy Systems; Design and Development of Smart Controllers for Microgrid/Smart Grid Systems; Control of Active Distribution Systems; Energy Management in Hybrid AC/DC Microgrid Systems; Application of Power Electronics to Power Systems; Application of Soft Computing to Power Quality Problems
74	Dr. Debapratim Ghosh Assistant Professor debapratim@iitbbs.ac.in	IIT Bombay, 2017	Microwave components, circuits, and systems, microwave measurement systems, analogue and small-scale embedded systems
75	Dr. Dipankar De Assistant Professor dipankar@iitbbs.ac.in	IISc Bangalore, 2011	Switched Mode Power Converter and Design of Integrated Magnetics; Application of Power Electronics in Power Systems; Wide band-gap Device-based Power Conversion
76	Dr. Joy Chandra Mukherjee Assistant Professor joy@iitbbs.ac.in	IIT Kharagpur, 2015	Distributed Algorithms, Time-varying Network Algorithms, Intelligent Transportation Systems, Smart Grid
77	Dr. Nijwm Wary Assistant Professor nijwmwary@iitbbs.ac.in	IIT Kharagpur, 2018	Analog CMOS VLSI circuit design; circuit design for the high-speed serial link; SERDES; on-chip and off-chip interconnects; full-duplex and coded differential signalling.
78	Dr. Olive Ray Assistant Professor olive@iitbbs.ac.in	IIT Kanpur, 2016	Renewable power integration; Converter modeling and control; Digital control of Power Electronics
79	Dr. Siddhartha S. Borkotoky Assistant Professor borkotoky@iitbbs.ac.in	Clemson University, South Carolina, 2017	Wireless Communications; IoT; Application-Layer Coding; Adaptive Transmission Protocols
80	Dr. Soumya Prakash Dash Assistant Professor spdash@iitbbs.ac.in	IIT Delhi, 2019	Communication theory; Powerline communication; Smart grid communications; Diversity combining; Soft and evolutionary computing
81	Dr. Srinivas Boppu Assistant Professor srinivas@iitbbs.ac.in	University of Erlangen Nuremberg, 2015	Programmable Hardware Accelerators
82	Dr. Srinivas Pinisetty Assistant Professor spinisetty@iitbbs.ac.in	INRIA Rennes, University of Rennes1, France	Formal methods, runtime monitoring

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
83	Dr. Sudipta Saha Assistant Professor sudipta@iitbbs.ac.in	IIT Kharagpur,2015	Wireless Sensor Network; Cyber-Physical Systems; Internet-of-Things
84	Dr. Navjeet Bagga Assistant Professor navjeet@iitbbs.ac.in	IIT Roorkee, 2019	Investigation of Device Engineered Innovative Tunnel FETs for Improved Performances.
85	Dr. Nitya Tiwari Assistant Professor nityatiwari@iitbbs.ac.in	IIT Bombay, 2020	Speech Enhancement, Noise Suppression
86	Dr. Ankit Dalal Assistant Professor ankitdalal@iitbbs.ac.in	IIT Guwahati, 2018	Electric motor for Electric vehicle Application.
87	Dr. Abhik Jana Assistant Professor abhikijana@iitbbs.ac.in	IIT Kharagpur, 2021	Natural Language Processing
88	Dr. Devashree Tripathy Assistant Professor devashreetripathy@iitbbs. ac.in	University of California, Riverside, California, USA, 2021	Computer Architecture Title: Improving Performance and Energy Efficiency of GPUs through Locality Analysis.
89	Dr. Ankit Ravindra Deshmukh Assistant Professor ankitd@iitbbs.ac.in	IIT Kharagpur, 2021	Control Systems: Periodic Control
90	Dr. Sayan Dey Assistant Professor sayandey@iitbbs.ac.in	IIT Kharagpur, 2021	Microelectronic sensors
91	Dr. Ayan Palchaudhuri Assistant Professor ayan@iitbbs.ac.in	IIT Kharagpur, 2021	Digital VLSI Architecture Design
92	Dr. Himanshu Pramod Padole Assistant Professor himanshupadole@iitbbs.ac.in	IIT Delhi, 2021	Graph and Biomedical Signal Processing
Scho	ool of Humanities, Social S	Sciences and Managem	nent
93	Dr. Amrita Satapathy Associate Professor asatapathy@iitbbs.ac.in	Utkal University, 2009	Commonwealth Studies, Indian Diaspora Literature, Travel Writings/ Autobiographies/ Memoirs
94	Dr. Anamitra Basu Associate Professor anamitrabasu@iitbbs.ac.in	IIT Kharagpur, 2010	Laterality; Psycholinguistics; clinical Psychology
95	Dr. Dukhabandhu Sahoo Associate Professor dsahoo@iitbbs.ac.in	Institute for Social and Economic Change, Bangalore, 2007	Open Macroeconomics; Development Economics; Environment and Natural Resource Economics
96	Dr. Naresh Chandra Sahu Associate Professor naresh@iitbbs.ac.in	IIT Kanpur, 2008	Environmental Economics; Finance; Mining and Rural Development
97	Dr. Punyashree Panda Associate Professor ppanda@iitbbs.ac.in	Berhampur University, 2008	Postcolonial World Literature, Indigenous Writings; Indian Writing in English; ELT, Cross- cultural Communication
98	Dr. Akshaya Kumar Rath Associate Professor akrath@iitbbs.ac.in	University, Hyderabad, 2011	Indian English Writing

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
99	Dr. Bimal Kishore Sahoo Associate Professor bks@iitbbs.ac.in	IIT Roorkee, 2012	Economics
100	Dr. Madhusmita Dash Assistant Professor madhusmita@iitbbs.ac.in	IIT Kharagpur, 2016	Economics of Natural Resource Management; New Institutional Economics; Environmental Economics; Rural Development; Renewable Energy; Trans-boundary Water Conflict
101	Dr. Rajakumar Guduru Assistant Professor rajakumarguduru@iitbbs.ac.in	English and Foreign Languages University, Hyderabad, 2011	Developing Critical Vocabulary of ESL Learners; Cognitive Reading Skills; Second Language Acquisition; Teacher Education and Development; Communication Skills; Technology and Language Learning
102	Dr. Aparna Pandey Assistant Professor aparnapandey@iitbbs.ac.in	University of Mysore, 2016	Cognitive Psychology
103	Dr. Nihar Ranjan Jena Assistant Professor nrjena@iitbbs.ac.in	University of Mumbai, 2019	Development Economics, MSMEs
104	Dr. Sreetama Misra Assistant Professor sreetama@iitbbs.ac.in	Assam University Silchar, 2016	Solidarity Rights, Environmental Ethics
105	Dr. Richa Shukla Assistant Professor richashukla@iitbbs.ac.in	Jawaharlal Nehru University, 2019	Feminist Phenomenology, Asian Philosophy
106	Dr. Ashna Mary Jacob Assistant Professor ashnajacob@iitbbs.ac.in	IIT Indore, 2019	English
107	Dr. Sitakanta Panda Assistant Professor spanda@iitbbs.ac.in	IIT Delhi, 2017	Empirical Political Economics and Development Economics
108	Dr. Avishek Bhandari Assistant Professor avishekb@iitbbs.ac.in	University of Hyderabad, 2018	Wavelet methods in analysing contagion, Interdependence and long memory among global equity markets.
109	Dr. Swathi Krishna S Assistant Professor swathi@iitbbs.ac.in	IIT Hyderabad, 2017	Contemporary American Women's Literature
110	Dr. R Venkata Raghavan Assistant Professor raghavan@iitbbs.ac.in	University of Hyderabad, 2021	Philosophy of Language
111	Dr. Prama Bhattacharya Assistant Professor prama@iitbbs.ac.in	IIT Kanpur, 2020	Clinical and community psychology
Sch	ool of Infrastructure		
112	Prof. Dinakar Pasla Professor pdinakar@iitbbs.ac.in	IIT Madras, 2005	Concrete Technology
113	Prof. Pushpendu Bhunia Professor pbhunia@iitbbs.ac.in	IIT Kharagpur, 2008	Nutrients removal and recovery from wastewater; Vermi-filtration of domestic and industrial wastes; Recovery of energy and biogas generation from biodegradable wastes

S .N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
114	Prof. Rajesh Roshan Dash Professor rrdash@itbbs.ac.in	IIT Roorkee, 2008	Environmental Engineering; Treatment of Water and Wastewater; Solid Waste Management
115	Prof. Sumanta Haldar Professor sumanta@iitbbs.ac.in	IISc Bangalore, 2008	Offshore wind energy foundation; Soil-structure interaction; Dynamics of soil and foundation
116	Prof. Sarat Kumar Panda Professor sarat@iitbbs.ac.in	IIT Kharagpur, 2010	Stability of Structures
117	Dr. Arindam Sarkar Associate Professor asarkar@iitbbs.ac.in	IIT Kharagpur, 2006	Flow through submerged and emergent vegetation; Scour around hydraulic structures; Mathematical flow modelling
118	Dr. B. Hanumantha Rao Associate Professor bhrao@iitbbs.ac.in	IIT Bombay, 2009	Geotechnical Engineering; Environmental Geotechnics;
119	Dr. Debasis Basu Associate Professor dbasu@iitbbs.ac.in	IIT Kharagpur, 2008	Sustainable Transportation, Operation of Public Transport; Transportation Economics; Traffic Studies
120	Dr. Manaswini Behera Associate Professor manaswini@iitbbs.ac.in	IIT Kharagpur, 2012	Water and wastewater treatment and reuse; Bioenergy recovery during wastewater treatment in microbial fuel cell; Solid waste management
121	Dr. Partha Pratim Dey Associate Professor ppdey@iitbbs.ac.in	IIT Roorkee, 2006	Traffic Flow Modelling
122	Dr. Remya Neelancherry Associate Professor remya@iitbbs.ac.in	National Chiao Tung University Taiwan, 2010	Microwave photocatalytic treatment of complex wastewater; Catalytic copyrolysis of mixed solid waste; Solar photocatalytic treatment and preparation of supported catalyst
123	Dr. Suresh R Dash Associate Professor srdash@iitbbs.ac.in	University of Oxford, 2011	Structural Dynamics and Earthquake engineering; Soil-Structure Interaction; Seismic Analysis and Design of Pipelines
124	Dr. Umesh Chandra Sahoo Associate Professor ucsahoo@iitbbs.ac.in	IIT Kharagpur, 2009	Pavement Analysis and Design; Pavement Materials; Low Volume Roads
125	Dr. Anush Konayakanahalli Chandrappa Assistant Professor akc@iitbbs.ac.in	IIT Kharagpur, 2018	Transportation and Pavement Engineering
126	Dr. Devesh Punera Assistant Professor devesh@iitbbs.ac.in	IIT Bombay, 2018	Structural Mechanics; Composite structures; Continuum theories of beams, plates and shell structures; Smart materials; Bio-mechanics.
127	Dr. Goutam Mondal Assistant Professor gmondal@iitbbs.ac.in	IIT Kanpur, 2011	Earthquake Engineering and Structural Dynamics; Seismic Analysis of Bridges; Soil-Structure Interaction
128	Dr. Jothi Saravanan Thiyagarajan Assistant Professor tjs@iitbbs.ac.in	The University of Tokyo, Japan, 2018	Structural Health Monitoring; Railway Track profile Estimation
129	Dr. Meenu Ramadas Assistant Professor meenu@iitbbs.ac.in	Purdue University, USA, 2015	Hydrology; Water Resources; Drought Modelling

S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
130	Dr. Mohammad Masiur Rahaman Assistant Professor masiurr@iitbbs.ac.in	IISc. Bangalore, 2018	Solid Mechanics, Fracture Mechanics, Peridynamics; Visco-plasticity and damage
131	Dr. Shantanu Patra Assistant Professor shantanupatra@iitbbs.ac.in	IIT Delhi, 2013	Geotechnical engineering, geosynthetics and their application
132	Dr. Tirtha Roy Biswas Assistant Professor tirtharoybiswas@iitbbs.ac.in	IIT Kharagpur, 2021	Numerical simulation of flow and sediment Transport
133	Dr. Saket Dubey Assistant Professor saketdubey@iitbbs.ac.in	IIT Indore, 2022	Remote Sensing, Hydrology, Disaster Risk Management
134	Dr. Santhosh Kumar G Assistant Professor santhoshg@iitbbs.ac.in	IIT Kanpur, 2020	Geotechnical Engineering
Scho	ool of Mechanical Science	S	
135	Prof. Swarup Kumar Mahapatra Professor swarup@iitbbs.ac.in	Jadavpur University, 2000	Conjugate Heat Transfer; Radiation Modelling; Bio Heat Transfer
136	Dr. Manas Mohan Mahapatra Professor mmmahapatra@iitbbs.ac.in	IIT Kharagpur, 2008	Welding Residual Stress & Distortion control, Friction Stir Welding Tool Design, Friction Stir Processing and Friction Cladding; Thermal Spray and Laser Coating for Wear and High Temperature Applications; In-situ Metal Matrix Composites and their Manufacturability
137	Dr. Arun Kumar Pradhan Associate Professor akpradhan@iitbbs.ac.in	IIT Kharagpur, 2008	Solid Mechanics, Composite Materials & Structures, Fracture Mechanics & Delamination studies in Composites; Smart Materials & Structures; Natural Fibre Reinforced Composites
138	Dr. Mihir Kumar Das Associate Professor mihirdas@iitbbs.ac.in	IIT Roorkee, 2006	Two Phase Heat Transfer; PCM based Cooling System; Internal Combustion Engines
139	Dr. Mihir Kumar Pandit Associate Professor mihir@iitbbs.ac.in	IIT Kharagpur, 2009	Design and Solid Mechanics; Sandwich Structures; Composite Materials
140	Dr. Prasenjit Rath Associate Professor prath@iitbbs.ac.in	Nanyang Technological University, Singapore, 2007	Transport Phenomena in Materials Processing; Ultrafast Transport; CFD/HT
141	Dr. Sasidhar Kondaraju Associate Professor sasidhar@iitbbs.ac.in	Wayne State University, 2009	Microfluidics; Micro/Nanoscale Thermofluids; Multiphase Flows
142	Dr. Satish Dhandole Associate Professor satish@iitbbs.ac.in	IIT Delhi, 2009	Dynamic Design; Vibro-acoustic; Mechanisms
143	Dr. Satyanarayan Panigrahi Associate Professor psatyan@iitbbs.ac.in	IISc. Bangalore, 2007	Underwater acoustic absorbers; Acoustics of mufflers and ducts; Acoustic metamaterials

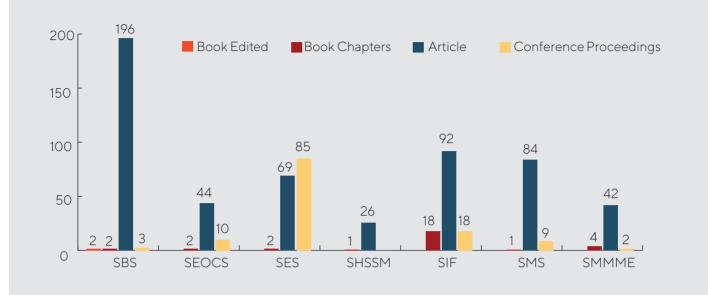
S.N.	Name/Designation/Email	Ph.D./Year	Specialization/Research Area
144	Dr. V. Pandu Ranga Associate Professor pandu@iitbbs.ac.in	IIT Kharagpur, 2009	Robotics; Manufacturing; Soft Computing
145	Dr. Yogesh G. Bhumkar Associate Professor bhumkar@iitbbs.ac.in	IIT Kanpur, 2012	High performance computing; Computational aero acoustics; Transitional and turbulent flows
146	Dr. Anirban Bhattacharya Associate Professor anirban@iitbbs.ac.in	IISc. Bangalore, 2014	Multi-phase and multiscale transport phenomena; Phase change and grain structure modelling; Boiling heat transfer modelling
147	Dr. Chetan Assistant Professor chetan@iitbbs.ac.in	IIT Delhi, 2018	Sustainable Machining; Micro-Machining; Surface Engineering; Tribology in Manufacturing
148	Dr. Gaurav Bartarya Assistant Professor bartarya@iitbbs.ac.in	IIT Kanpur, 2014	Conventional and nonconventional Machining Processes
149	Dr. K. Srinivasa Ramanujam Assistant Professor sramanujam@iitbbs.ac.in	IIT Madras, 2012	Active Passive Remote Sensing; Engineering Design and Optimization; Atmospheric Radiation
150	Dr. Pattabhi Ramaiah Budarapu Assistant Professor pattabhi@iitbbs.ac.in	Bauhaus University of Welmar, Germany, 2015	Multiscale methods for fracture; molecular dynamics; fracture in multiphysics problems; structural dynamics
151	Dr. Soham Roychowdhury Assistant Professor soham@iitbbs.ac.in	IIT Kharagpur, 2019	Computational Solid Mechanics; Mechanics of Inflatable Structures; Nonlinear Elasticity
152	Dr. Suvradip Mullick Assistant Professor suvradip@iitbbs.ac.in	IIT Kharagpur, 2016	Laser material processing, Non-conventional machining
153	Dr. Venugopal Arumuru Assistant Professor venugopal@iitbbs.ac.in	IIT Bombay, 2014	Fluid Structure Interaction and unsteady Aero- Hydrodynamics; Heat Transfer augmentation; Acoustics
154	Dr. Satish Kumar Panda Assistant Professor skpanda@iitbbs.ac.in	National University of Singapore, Singapore, 2019	Biomechanics(Thesis title: Biomechanics of Gastrointestinal Tract)
155	Dr. Amrit Bikram Sahu Assistant Professor amritbsahu@iitbbs.ac.in	IISc. Bangalore, 2016	Quantitative Laser-base Diagnostics and Modelling of Syngas-Air Counterflow Diffusion Flames
156	Dr. Suman Deb Assistant Professor sumandeb@iitbbs.ac.in	IIT Madras, 2021	Advanced forming of ultrafine grain nano Composite sheet
157	Dr. Soumya Ranjan Sahoo Assistant Professor soumyashoo@iitbbs.ac.in	IIT Kharagpur, 2020	Smart Composite Structures
158	Dr. Mahendaran Uchimali Assistant Professor mahendaran@iitbbs.ac.in	IIT Madras, 2020	Computational model for evolving microstructures
159	Dr. Divyansh Patel Assistant Professor dspatel@iitbbs.ac.in	IIT Kanpur, 2020	Advanced manufacturing processes

S.N .	Name/Designation/Email	Ph.D./Year	Specialization/Research Area		
School of Minerals, Metallurgical and Materials Engineering					
160	Prof. Brahma Deo MGM Chair Professor bdeo@iitbbs.ac.in	University of Burdwan, 1975	Iron and steel making; Dynamic process control and optimization; Chaos control in dynamical systems		
161	Dr. Amritendu Roy Associate Professor amritendu@iitbbs.ac.in	IIT Kanpur, 2012	Ferroelectric and multiferroic materials for memory and energy applications; Multi component alloy design; Electronic structure calculations		
162	Dr. Animesh Mandal Associate Professor animesh@iitbbs.ac.in	IIT Kharagpur, 2007	Aluminium alloys; Metal matrix composites; Semisolid processing of metallic systems		
163	Dr. Kisor Kumar Sahu Associate Professor kisorsahu@iitbbs.ac.in	Kyoto University, 2006	Modelling and simulation of materials; Energy materials and systems; Structural and magnetic frustration of materials		
164	Dr. Soobhankar Pati Associate Professor spati@iitbbs.ac.in	Boston University, 2010	Electrochemistry ; Energy Materials; Sustainable Materials and Process		
165	Dr. Kodanda Ram Mangipudi Assistant Professor kodanda@iitbbs.ac.in	University of Groningen, 2012	Computational Mechanics Mechanical behavior of (nano)composite materials Mechanics of cellular solids		
166	Dr. Partha Sarathi De Assistant Professor parthasarathi.de@iitbbs.ac.in	Missouri University of Science & Technology, USA, 2010	Friction stir welding and processing; High entropy alloys; Thermo-mechanical processing of metals		
167	Dr. Rama Krushna Sabat Assistant Professor rsabat@iitbbs.ac.in	IISc. Bangalore, 2015	Evolution of microstructure and texture during severe plastic deformation of a Magnesium- Cerium alloy		
168	Dr. Sivaiah Bathula Assistant Professor sivaiahb@iitbbs.ac.in	Delhi Technological University (DTU), Delhi, 2016	Thermoelectric Materials; Advanced Materials Processing Techniques; Advanced Materials Characterization Techniques; Novel Materials Synthesis Methodologies.		
169	Dr. Srikant Gollapudi Assistant Professor srikant@iitbbs.ac.in	North Carolina State University, 2007	Creep behavior of titanium, zirconium, magnesium and aluminum alloys and solders Mechanical alloying of amorphous and nanocrystalline alloys		
170	Dr. Maya Katapadi Kini Assistant Professor mayakini@iitbbs.ac.in	IISc. Bangalore, 2017	Sintering, interfaces in ceramics		
171	Dr. Snigdha Ghosh Assistant Professor snigdha@iitbbs.ac.in	IIT Bombay, 2021	Process Metallurgy		

Adjunct Faculty 2022-2023

S.N.	Name	Parent Institute	Name of the School visited
1.	Dr. Aruna Mohanty	Odissi Dancer and Choreographer, Odisha Dance Academy	SHSS&M
2.	Dr. Ashwini Nanda	Founder and CEO, HPC Research Inc., USA	SES
3.	Dr. Avijit Kumar	IIT Bhubaneswar	SBS
4.	Dr. Chayan Sarkar	Scientist, TCS Research	SES
5.	Padmashree Dr. Ileana Citaristi	Odissi Dancer and Choreographer, Founder Secretary Art Vision Dance Academy	SHSS&M
6.	Dr. Ravi Bastia	CEO, Olimax Energy Pvt. Ltd.	SEOCS
7.	Prof. R. G. Sastry	Indian Institute of Technology Bhubaneswar	SEOCS
8.	Prof. U. C. Mohanty	Indian Institute of Technology Bhubaneswar	SEOCS
9.	Dr. Ankur Roy	Indian Institute of Technology Kharagpur	SEOCS
10.	Dr. Pathikrit Bhattacharya	NISER Bhubaneswar	SEOCS
11.	Prof. Tapas Kumar Biswal	IIT Bombay	SEOCS
12.	Padmashree Kumkum Mohanty	Odisha Sangeet Maha Vidyalaya	SHSS&M
13.	Prof. Amit Sen	IIT Roorkee	SEOCS
14.	Prof. B. K. Panigrahi	Director, Materials Chemistry & Metal Fuel Cycle Group, Indira Gandhi Centre for Atomic Research	SMMME
15.	Prof. Brij Kumar Dhindaw	Indian Institute of Technology Kharagpur	SMMME
16.	Prof. H. K. Mishra	IIT Bhubaneswar	SEOCS
17.	Prof. N. V. Chalapathi Rao	Institute of Science, BHU	SEOCS
18.	Prof. P. K. J. Mohapatra	Indian Institute of Technology Bhubaneswar	SES
19.	Prof. Pratap Kumar Rath	Centre of Advanced Study in Psychology	SHSS&M
20.	Prof. Ravikant Vadlamani	Department of Geology and Geophysics, IIT Kharagpur	SEOCS

Publications



Books Edited

School of Basic Science

- Kumar, S., Agrawal, N., Saha, C., & Jha, R. (2022). Optical fiber-based plasmonic biosensors: trends, techniques, and applications. CRC Press. https://doi. org/10.1201/9781003243199
- Samantara, A. K., Raj, S., & Ratha, S. (Eds.). (2022). Nanomaterials-based sensing platforms: towards the efficient detection of biomolecules and gases. CRC Press. https://doi.org/10.1201/9781003199304

Book Chapters

School of Basic Science

- Patra, S., & Maity, N. (2022). Chapter 14–Identification, characterization, and analysis of per- and polyfluoroalkyl substances. In S. Pilli, P. Bhunia, V. Tyagi, R. Tyagi, J. Wong, & A. Pandey (Eds.), Current Developments in Biotechnology and Bioengineering (pp. 285-297). Elsevier. https://doi.org/10.1016/B978-0-323-99906-9.00006-1
- 2 Ratha, S. S., Satvajit. (2022). Metal-Free Electrode Materials for Electrochemical Biosensors. In Nanomaterials-Based Sensina Platforms. Apple Academic Press. https://doi. org/10.1201/9781003199304

School of Earth, Ocean and Climate Sciences

- Acharya, P., Muduli, P. R., Das, M., & Mishra, A. K. (2022). Assessment of Total Petroleum Hydrocarbon Accumulation in Crabs of Chilika Lagoon, India. In S. Madhav, S. Nazneen, & P. Singh (Eds.), Coastal Ecosystems: Environmental importance, current challenges and conservation measures (pp. 285– 303). Springer International Publishing. https://doi. org/10.1007/978-3-030-84255-0_12
- Swain, D. (2022). Tropical Cyclones and Coastal Vulnerability: Assessment and Mitigation. In A. Pandey, V. M. Chowdary, M. D. Behera, & V. P. Singh (Eds.), Geospatial Technologies for Land and Water Resources Management (pp. 587-621). Springer International Publishing. https://doi.org/10.1007/978-3-030-90479-1_30

School of Electrical Sciences

- Pinisetty, S., Allen, N., Pearce, H., Trew, M., Singh Gaur, M., & Roop, P. (2022). Formal Methods for the Security of Medical Devices 1. In Applied Smart Health Care Informatics (pp. 31–65). John Wiley & Sons, Ltd. https:// doi.org/10.1002/9781119743187.ch3
- Sharma, N. K., & Samantaray, S. R. (2022). Chapter 9– Issues and challenges in microgrid protection. In B. Subudhi & P. K. Ray (Eds.), Microgrid Cyberphysical Systems (pp. 233–254). Elsevier. https://doi. org/10.1016/B978-0-323-99910-6.00004-9

School of Infrastructure

- Ali, M., Pilli, S., Bhunia, P., Tyagi, R. D., Pandey, A., & Tyagi, V. K. (2022). Chapter 11–Occurrence, fate, and persistence of perfluorinated compounds (PFCs) in wastewater treatment systems. In S. Pilli, P. Bhunia, V. Tyagi, R. Tyagi, J. Wong, & A. Pandey (Eds.), Current Developments in Biotechnology and Bioengineering (pp. 207–225). Elsevier. https://doi.org/10.1016/B978-0-323-99906-9.00017-6
- Bagchi, S., & Behera, M. (2022). Chapter 1–Microbial degradation of xenobiotics in bioelectrochemical systems. In S. Rodriguez-Couto & M. P. Shah (Eds.), Development in Wastewater Treatment Research and Processes (pp. 1–22). Elsevier. https://doi.org/10.1016/ B978-0-323-85839-7.00020-7
- Dey Chowdhury, S., Tyagi, R. D., Pilli, S., Tyagi, V. K., Pandey, A., & Bhunia, P. (2022). Chapter 15–Per- and poly-fluoroalkyl substances (PFASs) in water and wastewater. In S. Pilli, P. Bhunia, V. Tyagi, R. Tyagi, J. Wong, & A. Pandey (Eds.), Current Developments in Biotechnology and Bioengineering (pp. 299-333). Elsevier. https://doi.org/10.1016/B978-0-323-99906-9.00003-6
- Dey Chowdhury, S., Bandyopadhyay, R., & Bhunia, P. (2022). Chapter 14–Techno-economic analysis and life-cycle assessment of vermi-technology for waste bioremediation. In S. Varjani, A. Pandey, M. J. Taherzadeh, H. H. Ngo, & R. D. Tyagi (Eds.), Biomass, Biofuels, Biochemicals (pp. 315–349). Elsevier. https:// doi.org/10.1016/B978-0-323-88511-9.00013-6
- Gurjar, R., & Behera, M. (2022). Industrial Wastewater TreatmentWastewater treatments in Bioelectrochemical Systems. In S. Arora, A. Kumar, S. Ogita, & Y.-Y. Yau (Eds.), Innovations in Environmental Biotechnology (pp. 345–373). Springer Nature. https:// doi.org/10.1007/978-981-16-4445-0_15
- Jayasree, P., & Remya, N. (2022). Photocatalytic Degradation of Paracetamol using TiO2 Supported on Waste-Recovered Aluminosilcate. In I. Haq, A. S. Kalamdhad, & S. Dash (Eds.), Environmental Degradation: Monitoring, Assessment and Treatment Technologies (pp. 169–178). Springer International Publishing. https://doi.org/10.1007/978-3-030-94148-2_14
- Jena, S., & Sahoo, S. (2022). Chapter 8 Groundwater sustainability: Role of monitoring, modeling, and management. In U. Chatterjee, B. Pradhan, S. Kumar, S.

Saha, M. Zakwan, B. D. Fath, & D. Fiscus (Eds.), Water, Land, and Forest Susceptibility and Sustainability (Vol. 1, pp. 209–234). Elsevier. https://doi.org/10.1016/B978-0-323-91880-0.00002-7

- Mishra, B., Aggarwal, M., & Remya, N. (2022). Application of Biochar for Removal of Emerging Contaminants. In S. P. Singh, A. K. Agarwal, T. Gupta, & S. M. Maliyekkal (Eds.), New Trends in Emerging Environmental Contaminants (pp. 211–224). Springer. https://doi.org/10.1007/978-981-16-8367-1_10
- Pilli, S., Bhunia, P., Tyagi, V., Tyagi, R., Wong, J., & Pandey, A. (Eds.). (2022). Preface. In Current Developments in Biotechnology and Bioengineering (pp. 13-14). Elsevier. https://doi.org/10.1016/B978-0-323-99906-9.00011-5
- Priyanka, K., Remya, N., & Behera, M. (2022). Solar Photocatalysis using N-doped TiO2 for Greywater Treatment: Optimisation of Operational Parameters. In I. Haq, A. S. Kalamdhad, & S. Dash (Eds.), Environmental Degradation: Monitoring, Assessment and Treatment Technologies (pp. 161-168). Springer International Publishing. https://doi.org/10.1007/978-3-030-94148-2_13
- Pundlik, R. C., Dash, R. R., & Bhunia, P. (2022). Chapter 16–Constructed wetland system for the treatment of wastewater in a circular bioeconomy. In S. Varjani, A. Pandey, M. J. Taherzadeh, H. H. Ngo, & R. D. Tyagi (Eds.), Biomass, Biofuels, Biochemicals (pp. 365–386). Elsevier. https://doi.org/10.1016/B978-0-323-88511-9.00010-0
- Raychaudhuri, A., Gurjar, R., Bagchi, S., & Behera, M. (2022). Chapter 12–Application of microbial electrochemical system for industrial wastewater treatment. In D. A. Jadhav, S. Pandit, S. Gajalakshmi, & M. P. Shah (Eds.), Scaling Up of Microbial Electrochemical Systems (pp. 195–215). Elsevier. https://doi.org/10.1016/ B978-0-323-90765-1.00012-5
- Remya, M. A., Neelancherry. (2022). Integrated Wastewater Treatment and Biofuel Production Using Microalgae. In Microbial Technologies for Wastewater Recycling and Management. CRC Press. http://dx.doi. org/10.1201/9781003231738-23
- 20. Remya, N., & Aggarwal, M. (2022). Removal of the pharmaceutical compounds from wastewater by biochar. In Removal of the pharmaceutical compounds from wastewater by biochar (pp. 217–232). De Gruyter. https://doi.org/10.1515/9783110734003-010

- Remya, B. M., Neelancherry. (2022). Modified Biochar for Wastewater Treatment and Reuse. In Designer Biochar Assisted Bioremediation of Industrial Effluents. CRC Press. https://www.taylorfrancis.com/ chapters/edit/10.1201/9781003203438-6/modifiedbiochar-wastewater-treatment-reuse-bikrammishra-neelancherry-remya
- Shreya, Verma, A. K., Gilron, J., Oren, Y., Ronen, Z., Dash, A. K., Bhunia, P., & Dash, R. R. (2022). Chapter 7–Effect of biological treatment on perfluoroalkyl and poly-fluoroalkyl substances (PFASs) degradation. In S. Pilli, P. Bhunia, V. Tyagi, R. Tyagi, J. Wong, & A. Pandey (Eds.), Current Developments in Biotechnology and Bioengineering (pp. 127–144). Elsevier. https://doi. org/10.1016/B978-0-323-99906-9.00004-8
- Shukla, N., & Remya, N. (2022). Solid Waste Management Methods: A Technological Analysis of Mechanical, Chemical, Thermal and Hybrid Means. In S. Yadav, A. M. Negm, & R. N. Yadava (Eds.), Environmental Management in India: Waste to Wealth (pp. 25–43). Springer International Publishing. https:// doi.org/10.1007/978-3-030-93897-0_2
- Y, M., Pilli, S., Tyagi, R. D., Bhunia, P., C, S., Tyagi, V. K., & Pandey, A. (2022). Chapter 1 Per- and poly-fluoroalkyl substances (PFASs): An introduction. In S. Pilli, P. Bhunia, V. Tyagi, R. Tyagi, J. Wong, & A. Pandey (Eds.), Current Developments in Biotechnology and Bioengineering (pp. 1–14). Elsevier. https://doi. org/10.1016/B978-0-323-99906-9.00007-3

School of Humanities, Social Sciences and Management

 Bhandari, A., Assaf, A., & Paramanik, R. N. (2022). Long Memory and Correlation Structures of Select Stock Returns Using Novel Wavelet and Fractal Connectivity Networks. In N. Yoshino, R. N. Paramanik, & A. S. Kumar (Eds.), Studies in International Economics and Finance: Essays in Honour of Prof. Bandi Kamaiah (pp. 599–616). Springer. https://doi.org/10.1007/978-981-16-7062-6_30

School of Minerals, Metallurgical and Materials Engineering

 Chatterjee, K., Sridhar, M. K., Singh, A. K., Sahu, K. K., Chatterjee, K., Sridhar, M. K., Singh, A. K., & Sahu, K. K. (2022). Application of Ionic Liquids in Rechargeable Li-Ion Batteries: A Comprehensive Guide to Design, Synthesis and Computational Aspects. In Industrial Applications of Ionic Liquids. IntechOpen. https://doi. org/10.5772/intechopen.107938

- Pandey, A., Patnaik, S., & Pati, S. (2022). Chapter
 Available technologies for remanufacturing, repurposing, and recycling lithium-ion batteries: An introduction. In S. Farhad, R. K. Gupta, G. Yasin, & T. A. Nguyen (Eds.), Nano Technology for Battery Recycling, Remanufacturing, and Reusing (pp. 33–51). Elsevier. https://doi.org/10.1016/B978-0-323-91134-4.00020-0
- Pemmada, R., Telang, V. S., Dash, M., Charles Richard, J. L., Tandon, P., Ramakrishna, S., & Nanda, H. S. (2022). Chapter 17–3D printing for functional tissue engineering. In C. P. Sharma, T. Chandy, V. Thomas, & F. G. Thankam (Eds.), Tissue Engineering (pp. 415-430). Academic Press. https://doi.org/10.1016/B978-0-12-824064-9.00017-4
- 29. Sradhasagar, S., Pati, S., & Roy, A. (2022). Methods and Techniques of Solid-State Batteries. In Solid State Batteries Volume 1: Emerging Materials and Applications (Vol. 1413, pp. 39–89). American Chemical Society. https://doi.org/10.1021/bk-2022-1413.ch003

School of Mechanical Sciences

 Chugh, B., Kumar Taraphdar, P., Biswal, H. J., Devi, N. R., Dorothy, R., Manimaran, N., & Rajendran, S. (2022). Chapter 12–Corrosion inhibition by aluminum oxide. In C. Verma, J. Aslam, & C. M. Hussain (Eds.), Inorganic Anticorrosive Materials (pp. 231–249). Elsevier. https:// doi.org/10.1016/B978-0-323-90410-0.00013-1

Journal Articles

School of Basic Science

- Abudinén, F., Aggarwal, L., Ahmed, H., Aihara, H., Akopov, N., Al Said, S., Aloisio, A., Anh Ky, N., Asner, D. M., Atmacan, H., Aushev, V., Ayad, R., Babu, V., Bacher, S., Baehr, S., Bahinipati, S., Bambade, P., Banerjee, Sw., Bansal, S., ... The Belle and Belle II collaborations. (2022). Combined analysis of Belle and Belle II data to determine the CKM angle ¢3 using B+ → D(\$\$ {K}_S^0 \$\$h+h-)h+ decays. Journal of High Energy Physics, 2022(2), 63. https://doi.org/10.1007/ JHEP02(2022)063
- Abudinén, F., Aggarwal, L., Ahmed, H., Aihara, H., Akopov, N., Al Said, S., Aloisio, A., Anh Ky, N., Asner, D. M., Atmacan, H., Aushev, V., Ayad, R., Babu, V., Bacher,

S., Baehr, S., Bahinipati, S., Bambade, P., Banerjee, Sw., Bansal, S., The BELLE and Belle II collaborations. (2022). Erratum to: Combined analysis of Belle and Belle II data to determine the CKM angle ϕ 3 using B+ \rightarrow D(KOSKSOh+h-)h+ decays. Journal of High Energy Physics, 2022(12), 34. https://doi.org/10.1007/ JHEP12(2022)034

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- Ahamed, M. B., & Allu, V. (2022). Bohr phenomenon for certain classes of harmonic mappings. Rocky Mountain Journal of Mathematics, 52(4), 1205–1225. https://doi.org/10.1216/rmj.2022.52.1205
- Ahamed, M. B., & Allu, V. (2022). Bohr-Rogosinski Inequalities for Certain Fully Starlike Harmonic Mappings. Bulletin of the Malaysian Mathematical Sciences Society, 45(4), 1913–1927. https://doi. org/10.1007/s40840-022-01271-7
- Ahmad Wani, T., Garg, P., Bera, S., Bhattacharya, S., Dutta, S., Kumar, H., & Bera, A. (2022). Narrow-Bandgap LaMO3 (M = Ni, Co) nanomaterials for efficient interfacial solar steam generation. Journal of Colloid and Interface Science, 612, 203–212. https:// doi.org/10.1016/j.jcis.2021.12.158
- Ali, M. F., Allu, V., & Yanagihara, H. (2022). An Application of the Schur Algorithm to Variability Regions of Certain Analytic Functions-I. Computational Methods and Function Theory, 22(1), 35–54. https://doi.org/10.1007/s40315-021-00362-z
- Allu, V., Lecko, A., & Thomas, D. K. (2022). Hankel, Toeplitz, and Hermitian-Toeplitz Determinants for Certain Close-to-convex Functions. Mediterranean Journal of Mathematics, 19(1), 22. https://doi. org/10.1007/s00009-021-01934-y
- Allu, V., & Halder, H. (2022). Operator valued analogues of multidimensional Bohr's inequality. Canadian Mathematical Bulletin, 65(4), 1020-1035. https://doi.org/10.4153/S0008439521001077
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- 126. Mohit, T., Patel, P., Kaushal, P., Sahoo, J., Arumuru, V., Deo, B., Jain, M., Manchanda, R. (2022). Improved On-Line Failure Prediction Method of Coal Injection System Used in A Sponge Iron Rotary Kiln. XV International Mineral Processing and Recycling Conference (IMPRC 2023). https://imprc.tfbor.bg.ac.rs/download/IMPRC%20 2023_Final%20Programme.pdf
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Sponsored Research & Industrial Consultancy (SRIC)

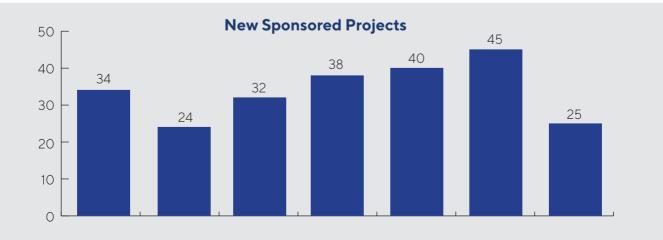
The Research and Development activities are increasing with time. The total value of projects received by the Institute so far (2008-23) is around ₹187.00 crores through 339 sponsored research and 433 consultancy projects. The breakup values of research and consultancy projects are ₹159.08 crores and ₹27.92 crores respectively. During the current year (2022-23), projects worth ₹23.94 crores have been received which includes ₹19.49 crores worth of sponsored research projects and ₹4.45 crores worth of consultancy projects. The major funding agencies are DST MOE CSIR UGC ISRO DRDO ICSSR DAE CPRI DAC DBT Deity NALCO NPOL IUSSTF INCOIS MoES MoWR IITM NCAOR BRNS KPIT, DSC&WD, Govt. of Odisha, P&C Dept.-Govt. of Odisha etc. In addition to the above, a total number of 161 project proposals worth more than ₹54.92 crores submitted recently are in pipeline.

The major areas covered by these projects are Advance Materials Energy Nanotech Hardware Health Care Defence CS & ICT Environmental Sciences & Climate Change Water Resources & River Science Manufacturing and Sustainable Urban Design. Our faculty members participated in major initiatives of MOE like IMPRINT Uchhatar Avishkar Yojana (UAY) Swachhta Action Plan FIST and Unnat Bharat Abhiyan (UBA) etc. The Institute is also actively participating in the national R&D missions namely: "IMPacting Research Innovation and Technology (IMPRINT)". A total of five projects under IMPRINT worth ₹ 2.43 crores are now ongoing.

Sponsored Research Projects for 2022-23

No. of ongoing sponsored projects for the year 2022-23 = 149 No. of new sponsored projects for the year 2022-23 = 25





S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)		
Sch	School of Basic Sciences				
1	Indian Participation in the CMS Experiment at CERN: Maintenance, Operation and Upgradation	DST	Dr. Seema Bahinipati		
2	Development of supercapacitor devices for grid-level energy storage application based on natural mineral chalcopyrite and bauxite residue	Ministry of Mines	Prof. Saroj Kumar Nayak		
3	Innovation in Science Pursuit for Inspired Research (INSPIRE) Faculty Scheme research grant	DST-Insipre Fellowship	Dr. Akash Ashirbad Panda		
4	Room-tempreture Sodium-Sulfur Batteries for Stationary Storage Applications	ReNew Power Private Limited	Dr. Hemant Kumar		
5	Identifications of model biases for extreme events over the Indian region	SERB	Prof. P V Satyam		
6	Novel Al Nano-structure based electrodes for battery and supercapacitor devices	DST	Prof. Saroj Kumar Nayak		
7	DST-Storage MAP: Automation and AI/ML- Assisted development of solid state battery technology	DST	Dr. Hemant Kumar		
8	Geometric optimization of finite time quantum thermodynamic processes under different control protocols	SERB	Dr. Malay Kumar Bandyopadhyay		
9	Development of computational method for finding the exact result on the queueing model involving heavy-tail distributions using complex analysis	SERB	Dr. Abhijit Datta Banik		
10	Rational Design Flexible Energy Storage Devices Using Multiscale Simulations and Machine Learning	SERB	Dr. Hemant Kumar		
11	Hypercyclic and chaotic behavior of adjoint multiplication operators on Banach spaces of analytic functions	SERB	Dr. Aneesh M.		
12	Design and synthesis of cocrystals/salts of anticancer drugs to improve physicochemical and pharmacokinetic properties: crystal engineering approach	SERB-DST	Prof. V R Pedireddi		
13	Development of process for 4N High Pressure pure alumina (HPA) and substrate making for its validation in LED applications	JNARDDC C/o NALCO	Dr. Hemant Kumar		
14	FIST Program: Discipline of Physics, SBS, IIT Bhubaneswar	DST	Prof. P V Satyam		
15	Development of Synthetic Strategies to Diverse N-Heterocyclic Fused ISOXAZOLES: Evaluation of Biological Activities And Photophysical Studies	CSIR-HRDG	Dr. Shantanu Pal		
16	Prototype Development, Fabrication and validation of Al- Graphene Composite Battery with Cooling Plates	NALCO	Prof. Saroj Nayak		
17	Indigenous development of controlled interferometry based high-temperature industrial flow measurement device	DST	Dr. Rajan Jha		
18	An enquiry into the problems in Geometric Function Theory	SERB-DST	Dr. Vasudeva Rao Allu		
19	Consultancy work on "Development of Specialty Fiber Modal Interferometer as a Thermometer for Harsh Environment	IGCAR	Dr. Rajan Jha		
20	Interaction of vortex beam with quantum emitters coupled to photonic nanowire	SERB-DST	Dr. Rajan Jha		
21	Contact Geometry Framework for Thermodynamics, Statistical Mechanics and Dissipative Dynamics?	SERB-DST	Dr. Chandrasekhar Bhamidipati		
22	Topological Phases Based on Metail-Organic Framework	SERB-DST	Dr. Avijit Kumar		

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
23	C-H, C-O Activation and C1-Platform Chemicals: Synthetic and Mechanistic Studies on Two-metal Synergy	SERB	Prof. Sujit Roy
24	Controlling Heat Float at Nanoscale: A Versatile Approach to Generate Sustainable Energy From Waste Heat	SERB	Dr. Malay Kumar Bandyopadhyay
25	Growth of semiconductor hetero structure nanolayers for solar cell application	SERB	Dr Satchidananda Rath
26	National Post-Doctoral Fellowship to Dr. Surjit Sahoo	DST	Prof. Saroj Nayak
27	Photovoltaic assisted water harvesting from moisture using biometric surface	DST	Dr Shyamal Chatterjee
28	Multiscale (QM/MM) modelling approach to understand the bacterial resistance towards beta-lactam based antibiotics	DST	Dr. Kousik Samanta
29	Metal Complexes of Macrocyclic/ Acyclic Ligands as T1 and ParaCEST-based Contract Agent for MRI	DST	Dr. Akhilesh Kumar Singh
30	Synthesis of Homo, Di and Tri (ABA type) Block Co-polymers of Less Activated Monomers by Reversible Deactivation Radical Polymerization	DST	Dr. Vijayakrishna Kari
31	Spectrum of random band matrices	DST INSPIRE	Dr. Indrajit Jana
32	Functional consequences of cancer testis antigen ATAD2 in pancreatic cancer	DBT	Dr. Anasuya Roychowdhury
33	A study of harmonic analogue of certain univalent and analytic functions	DST-MATRICS	Dr. Basudeva Rao Allu
34	Quasi-permutation representations and Gel'fand pair?	DST-MATRICS	Dr. Sunil Kumar Prajapati
35	Blending traditional and newer synthetic methods for regio-/stereoselective synthesis of functionalized carbo-/ heterocycles: Application towards the asymmetric total synthesis of some complex bioactive terpenoid-alkaloids	DST	Dr. Tabrez Khan
36	Design, Preparation and Evaluation of S (Sulphur) and P (Phosphorous) Mediated Functional Solids in the Form of Co-crystals, Metal-Organic Frameworks (MOFs) Structures and Covalent Organic Frameworks (COFs)	DST	Prof. V R Pedireddi
37	Design and development of metal-oxide hetero-structures for enhancement of photovoltaic energy conversion efficiency	DST	Dr.Niharika Mohapatra
38	Taylor column phenomena of axially translating sphere in a rotating fluid - a numerical study	DST	Prof. T V S Sekhar
39	A Novel fluorescence-based assay for rapid detection and quantification of Exosomes	DST	Dr. Srikanta Patra
40	Development of heterodimetallic complexes and their theranostic and catalytic aspects	DST-IMPRINT II	Dr. Srikanta Patra
41	Effect of laser shock peening on the fatigue behavior of Nitinol shape memory alloy	DST	Dr. Srikant Gollapudi
42	Development of Cost Effective process and known for production of Al-Mg alloys of enhanced mechanical properties, incorporating graphene/grapheme oxide, suitable for automobile application	NALCO	Prof. Saroj Nayak
43	Development of dppz based mononuclear complexes of iridium and gold as potential luminescent probe and anticancer agent	CSIR	Dr. Srikanta Patra

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)		
Sch	School of Earth Ocean and Climate Sciences				
44	Identifications of model biases for extreme events over the Indian region	New Venture Fund	Dr. Sandeep Patnaik		
45	Utilization of ITR Doppler Weather Radar Products in high resolution mesoscale model for prediction of severe weather over Chandipur- Phase II	ITR Chandipur	Prof. U C Mohanty		
46	Pliocene dynamics of the southern Pacific and its linkages with the low latitude climate	National Centre for Polar and Ocean Research	Dr. Raj Kumar Singh		
47	Effect of climate change on convectively coupled equatorial waves and MJO and their influence on extreme rainfall events over Indian region	Ministry of Earth Sciences	Dr. Kiranmayi Landu		
48	National Post-Doctoral Fellowship (N-PDF), (Life Sciences) to Dr. Amit Kumar Mishra	SERB-DST	Dr. Syed Hilal Farooq		
49	Middle Pleistocene to Holocene dynamics of Antarctic Circumpolar Current and its implications to global climate: Evidence from Southern Pacific	SERB	Dr. Raj Kumar Singh		
50	Subsurface variability of the Bay of Bengal from observations and models: relationship with Indian Monsoon and Cyclogenesis	DST	Dr. Sourav Sil		
51	The inter-relationship between atmospheric aerosol distribution and tropical intra seasonal oscillations over the Indian region	DST	Dr. Vinoj V		
52	Urban Modelling: Development of multi-sectorial simulation lab and science based decision support framework to address urban environment issues	C-DAC under MeitY	Prof. U C Mohanty		
53	Development of long-term high resolution Land Use Land Cover (LULC) data for Bhubaneswar peri-urban & rural areas and future projection	DST-SPLICE	Dr. Debadatta Swain		
54	Detection of Lightning Phenomena and Associated Processes and its now-casting	ISRO	Dr. Debadatta Swain		
55	Investigations of Aerosol Outflow from Indo Gangetic Plain	ISRO	Dr. Vinoj V		
Sch	ool of Electrical Sciences				
56	Classical and Quantum Error-Correcting Codes and Mathematics over Finite Fields for Smart Telecommunications	DST	Dr. Anoop Thomas		
57	"Design, Development, and Demonstration of a Centralized Protection and Monitoring (CPM) System within a Distribution Substation including DER" under NPP scheme of Ministry of Power (MoP) Govt of India	CPRI	Dr. Subhransu Ranjan Samantaray		
58	Optimized modulation of triple active bridge converter for electric vehicle application with wide band gap semiconductor devices	SERB	Dr. Dipankar De		
59	Design and Development of an Efficient Framework for Decentralized Real-Time Coordination and Collaboration for a Swarm of Autonomous Robots	SERB	Dr. Sudipta Saha		
60	National Post-Doctoral Fellowship (N-PDF), to Dr. Buddhadeva Sahoo	SERB	Dr. Subhransu Ranjan Samantaray		
61	Development of robust voltage and frequency control scheme for a microgrid operated in grid connected mode	DST	Dr. Pranati Rani Purohit		

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
62	Proof of concept for coordinate determination of Fall of Shot from aerial imagery	PXE-Chandipur- DRDO	Dr. Niladri Bihari Puhan
63	Design and Implementation of AI powered Autonomous Underwater Vehicle (AUV) and IoT Enabled Underwater Acoustic Sensor Networks	IITG TIDF	Dr. Pravas Ranjan Sahu
64	Design and Development of Next Generation Cost Effective Reconfigurable On-Board Battery Charger with Health and Fault Monitoring	MEITY	Dr. Olive Ray
65	Design and Development of Grid Interactive Adaptive Controls for Frequency Regulation from Large Scale PV Systems	CPRI	Dr. Chandrasekhar Perumalla
66	Development of adaptive motor controller for PMSM based three-wheeler Electric Vehicle	MeitY	Dr. Chandrashekhar N Bhende
67	Design and Development of Doppler Radar System for Inbore Projectile Velocity Measurement	ARMREB-DRDO	Dr. Debalina Ghosh
68	Development of cost-effective energy management strategies for a green hydrogen based electric vehicle charging station	SERB-TARE	Dr. Chandrasekhar Narayan Bhende
69	Development of Coordinated Protection and Control Scheme for Microgrid	SERB-DST	Dr. S R Samantaray
70	DHR-GIA Proposal: Development of an Affordable Wearable IoT-GPS Enabled Intelligent Vital Signs Monitor for Smart Health Monitoring Services	ICMR	Dr. M S Manikandan
71	EU Erasmus DIVERSASIA project – Embracing diversity in ASIA through the adoption of inclusive open practices	Nottingham Trent University	Dr. M S Manikandan
72	Design, Development, and Demonstration of Solar-PV On-board and Off-Board Electric Rickshaw Charging Infrastructure	DST	Dr. Olive Ray
73	Renewal Energy EMPOWERing European and InDian communities (RE-EMPOWERED)	DST	Dr. Srinivas Bhaskar Karanki
74	Speech to Speech Translation for Tribal Languages using Deep Leaning Framework	Ministry of Electronics and Information Technology through IIT Dharwad	Dr. M S Manikandan
75	Design and Development of Cost-Effective Floating-Solar Energy Generation Technologies and Infrastructure for Achieving Nearly Zero-Energy Villages	DST	Dr. Srinivas Bhaskar Karanki
76	Designing of computer vision guided intelligent traffic systems for smart cities	SERB-DST	Dr. Debi Prosad Dogra
77	Design and Development of a Software Defined Radar for Road Safety Applications	Odisha Motor Vehicle Department, Govt. of Odisha	Dr. P K Sahu
78	Design and Development of Deep Learning based App for Early Warning of Blindness	SERB-DST	Dr. N B Puhan
79	Bone health classification using machine learning	SERB-DST	Dr. Debalina Ghosh
80	Development of Internet of Things Enabled Phasor and Power Quality Monitoring Devices for Smart Power Grids	SERB-DST	Dr. S R Samantaray
81	High-speed and energy efficient CMOS transceiver design for full-duplex chip-to-chip serial link	SERB-DST	Dr. Nijwm Wary

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
82	Design Of Dynamic MAC and PHY SoC for Low Power and Long Range networks	MeitY	Dr Vijaya Sankara Rao Pasupureddi
83	Achieving reliable communications in the Internet of things: an erasure-correction coding approach	DST	Dr. S S Borkotoky
84	Efficient cache aided data delivery using deep reinforcement learning	DST	Dr. Anoop Thomas
85	National Post-Doctoral Fellowship to Dr. Haimabati Das	DST	Dr. N B Puhan
86	Development of Formal Verification Tools for Proactive Assessment and Prevention of Security Threats in Enterprise Networks	DRDO	Dr. P L Beara
87	Add on Radar for Jamming UAVs	Ministry of Defence	Dr. Debalina Ghosh
88	Design and Development of Dynamic Phasor and Frequency Estimator Complying IEEE C37.118 standard under Teachers Associateship for Research Excellence (TARE)	DST - TARE	Dr. S R Samantaray
89	Grid Interconnection Protocols for Largely Dispersed Minigrids/Microgrids for Electrification of Rural India (MultiGrid)	DST	Dr. Chandrasekhar Perumalla
90	Single chip test set for portable 5G network analyzers	DST	Dr. Debapratim Ghosh
91	Smart Grid Security Control Using Nature - Inspired Decentralised Cooperative Metaheuristic Strategies	DST - TARE	Prof. N C Sahoo
92	Prototype of Imaging Radar in UWB	DST-IMPRINT II	Dr. Srinivas Boppu
93	Light weight, Reconfigurable Cognitive Radio Platform for M2M and IoT applications	DST-IMPRINT II	Dr. Barathram Ramkumar
94	FIST Programme	DST	Dr. P K Sahu
95	UI-ASSIST: US-India collaborative for smart distribution system with storage	Indo-US Science & Technology Forum	Dr. S R Samantaray
96	UK India Clean Energy research institute (UKICERI)	DST	Dr. Srinivas Bhaskar Karanki
Sch	ool of Infrastructure		
97	Pilot scale demonstration of solar-power driven microwave pyrolysis unit for upcycling conversion of end-of-life RO membrance material into biofuels	DST	Dr. Remya Neelancherry
98	Mechanistic-Emperical Design of Jute Geotextile Reinforced Pavements for Rural Roads	National Jute Board	Dr. Umesh Sahoo
99	Reliability-Based design of Tunnels in Anisotropic Spatially Variable Residual Soil Slopes	SERB	Dr. Sumanta Haldar
100	Development of Simplified Model for Partial infill RC Frames.	SERB	Dr. Goutam Mondal
101	Implementation of World Bank Assisted Programme on " Rejuvenating Watersheds for Agricultural Resilience through Innovative Development" REWARD: Odisha	DSC&WD, Govt of Odisha	Dr.Meenu Ramdas
102	Performance evaluation of cement concrete pavements in rural roads	NRIDA	Dr. Anush Konayakanahalli Chandrappa
103	Evaluation of Bridge approach settlement mitigation schemes through field application	NRIDA	Dr. Suresh Ranjan Dash

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
104	A thermodynamically consistent model for designing high-performance ceramic laminates with tailored residual stresses	SERB-DST	Dr. Mohammad Masiur Rahaman
105	Stochastic Material Degradation based Large Deformation Finite Element Analysis of FRP Composites in Hygrothermal Environment using Thickness Stretching Kinematic Model- Special Investigation of Tidal Turbine Blades	DST	Dr. Devesh Punera
106	Saraswati 2.0 - Identifying best available technologies for decentralized wastewater treatment and resource recovery for India	DST	Dr. Manaswini Behera
107	Cost effective ICT-Data analytics system for efficient management of water and fertilizer in precision agriculture	DST-IMPRINT II	Dr. Meenu Ramadas
108	Urban Flood Modelling - A Web-based Decision Tool Integrating UAV Based Information	DST	Dr. Meenu Ramadas
Sch	ool of Mechanical Sciences		
109	Design and Development of Synthetic Jet Array for Steered and Focused Jet	SERB	Dr. Venugopal Arumuru
110	An Al-powered fully automated diagnostic software for evidence-based glaucoma detection by identifying structural biomarkers of the optic nerve head	SERB	Dr. Satish Kumar Panda
111	Mathematical and Numerical modelling of dropwise condensation on pipes	SERB	Dr. Sasidhar Kondaraju
112	Analysis and Design of elastodynamic metamaterials for vibro-acoustic control	Naval Physical & Oceanographic Laboratory	Dr. S N Panigrahi
113	Stability and contact problems of inflatable structures under DST INSPIRE Faculty Fellowship	DST	Dr. Soham Roychowdhury
114	Machine Learning Based Model for Optimization of PCM- Metal Foam Composite Energy Storage System	SERB	Dr. Anirban Bhattacharya
115	Design and Development of a Screw type Wheeled Snake- like Robot to Access the inaccessible Areas inside the Boiler Tubes and other Enclosures	CPRI	Dr. Pandu Ranga Vundavalli
116	Investigation on the role of residual stresses on shape memory effect and superelasticity in shape memory alloy welds	SERB-DST	Dr. Manas Mohan Mahapatra
117	Titanium alloy based fine featured Cranial implant development using Incremental Forming and ECM	SERB-DST	Dr. Gaurav Bartarya
118	Load distribution, design and joint configurations for Load Grounding through Human Worn Exo-Frames	DIPAS-DRDO	Dr. Pandu Ranga Vundavalli
119	Indigenous Development of a novel low-cost Solar PV panel self-cleaning device	DST	Dr. Venugopal Arumuru
120	Development of in-reflection fiber based interferometer for residual stress measurement	DST	Dr. M. M. Mahapatra
121	Ultrasonic assisted laser additive manufacturing of nickel based super alloys and its online temperature monitoring to control the directionality in grain growth, anisotropy in mechanical properties and elemental segregation; and enhancement of the component life by laser shock peening.	SERB-DST	Dr. Suvradip Mullick

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
122	Assimilation of Ground Radar Data with Weather Research and Forecast Model in Information Theoretic Framework	Ministry of Earth Sciences	Dr. Srinivasa Ramanujam Kannan
123	Development of heat transfer enhancement methods at DST boiling and evaporation on horizontal tube bundles for falling films and forced flow of liquids		Dr. Mihir Kumar Das
124	Thermal Characterization of gun barrel during dynamic firing	DRDO	Prof. S K Mohapatra
125	Design and development of lightweight and crashworthy hierarchical materials and structures	DST	Dr. B Pattabhi Ramaiah
126	Development of a sub-micrometre resolution electro hydrodynamic jet printer for printing customized polymeric structures	DST-IMPRINT II	Dr. Sasidhar Kondaraju
127	Dynamic Analysis and Design of Dynamically Balanced Gait Controller for Lower Limb Exoskeleton	DST	Dr. Pandu Ranga Vundavalli
128	Design and Development of Hybrid "PCM-Synthetic Jet" based Heat Sink for Electronic Cooling	DST	Dr. Mihir Kumar Das
129	FIST Program	DST	Dr. A Satyanarayana
130	National Initiative for Design Innovation	MHRD	Dr. S N Panigrahi
Sch	ool of Minerals Metallurgical and Materials Engine	ering	
131	Adapting Fused Deposition Modelling (FDM) technique for additive manufacturing of aluminium alloys in the semisolid state: Design and development of a novel prototype	SERB	Dr. Animesh Mandal
132	Conversion of natural mineral based tetrahedrite compounds into high performance thermoelectric devices used in the conversion of waste heat into electricity	npounds into high performance thermoelectric devices	
133	Manufacturing of 2-wheeler Lithium-ion battery pack witth hard/soft carbon anode and the possibility of utilizing gamma-MnO2 in lithium-ion battery cathode	hard/soft carbon anode and the possibility of utilizing Limited	
134	Experimental and theoretical investigations into the local structure and magnetic phases vis-a-vis transitions in multicomponent AlcuFeMn alloy using ab-initio density functional theory calculations, high energy synchrotron and neutron diffractional techniques	UGC-DAE CSR	Dr. Amritendu Roy
135	Creep and fatigue of selective laser melted Ti-6242 alloy	ARDB-DRDO	Dr. Srikant Gollapudi
136	Enhancing the formability of Mg alloys by microstructural engineering using CPFEM approach	SERB-DST	Dr. Rama Krushna Sabat
137	Band and nanostructural engineering of doped Mg2Si composite for optimized thermoelectric and mechanical properties	SERB-DST	Dr. Sivaiah Bathula
138	FIST Program: SMMME, IIT Bhubaneswar	DST	Dr. Animesh Mandal
139	Evaluation of Coal Tar Derived Hard/Soft Carbon Anodes for Power Li-ion Batteries	Tata Steel Limited	Dr. Soobhankar Pati
140	Development of PIEZOELECTRIC Ceramic-Polymer flexible composite based energy harvester for smart automobiles	CSIR-HRDG	Dr. Amritendu Roy
141	Employing metallurgical silicon to develop new class of silicon composites for structural applications	Ministry of Mines	Dr. Srikant Gollapudi
142	Computational alloy design and mechanical property study of complex concentrated alloys	Naval Materials Research Laboratory, Ambernath	Dr. Kodanda Ram Mangipudi

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)	
143	Fast Charging High Energy Density Lithium Ion Batteries with Nanoporous Silicon Anodes	SERB	Dr. Soobhankar Pati	
144	Designing of novel transition metal oxide based ferroelectric perovskites for visible light photovoltaic application	DST	Dr. Amritendu Roy	
145	Design and characterization of an Al-Ti based high entropy alloys	DST	Dr. Partha Sarathi De	
146	Mechanical behaviour of additively manufactured hierarchical micro-architected metamaterials and composites for structural and functional applications	DST	Dr. Kodandaram Mangipudi	
147	Centre for H2 Solutions - Materials Energy Systems (H2 - M & ES)	DST-NFTDC	Dr. Soobhankar Pati	
148	Low temperature electro refining process for production of high purity aluminium (4N and above)	NALCO	Dr. Soobhankar Pati	
149	Development of stand-alone, cost-effective conversion coatings for Magnesium alloys	UAY of MHRD	Dr. K K Sahu	

Consultancy/Development Projects for 2022-23

No. of ongoing consultancy projects for the year 2022-23 = 122

No. of new consultancy projects for the year 2022-23 = 98





S. N.	Title of the Project	Title of the Project Name of the Funding Agency				
Sch	School of Electrical Sciences					
1	Analog CMOS circuit design	MARQUEESEMI India Private Limited	Dr. Nijwm Wary			
2	Vetting of Electrical and E&M Designs and Drawings of Nayagarh Project	M/s GVPR Engineers Limited	Dr. Srinivas Bhaskar Karanki			
3	Vetting of Electrical and E&M Designs and Drawings of Nawarngpur Project	M/s GVPR Engineers Limited	Dr. Srinvas Bhaskar Karanki			
4	Analyzing Co-Occurring Road and Traffic Anomalies using deep learning	Korean Institute of Science and Technology	Dr. Devi Prasad Dogra			
5	Submission of the analysis of the project specific tariff of Lower Baitarani SHEP	M/s GRIDCO Ltd	Dr. Subhransu Ranjan Samantaray			
6	Execution of Rural Piped water supply project, pertaining to Ranipada Cluster of Banpur Block of Khurda District I/C five year of Operation and Maintenance	UMSL LTD	Dr. Srinvas Bhaskar Karanki			
7	Establishment of Chair Position at IIT Bhubaneswar by OPTCL	M/s Odisha Power Transmission Corporation Ltd	Dr. Subhransu Ranjan Samantaray			
8	Vetting of Electrical and E&I Designs and Drawings for Bramhagiri & Krushnaprasad block of Puri district of Odisha Project	Voltas Limited	Dr. Srinvas Bhaskar Karanki			
9	Vetting of Electrical and E&I Designs and Drawings for Rairakhol block of Sambalpur district of Odisha Project	Voltas Limited	Dr. Srinvas Bhaskar Karanki			
10	Vetting of Electrical and E&M Designs and Drawings of Puri-Ganjam Project	M/s GVPR Engineers Limited	Dr. S B Karanki			
11	Analog Design for Serial Communication	M/s Ceremorphic Inc	Dr. Nijwm Wary			
Sch	ool of Infrastructure					
12	Carrying out Environmental Audit of Smelter Plant, NALCO and issue of no increase in pollution load certificate	National Aluminium Co. Ltd.	Dr. Manaswini Behera			
13	Design of Cement Concrete Pavement for FCI depot at Khurda Road	Food Corporation Of India	Dr. Umesh C Sahoo			
14	Vetting of Project Report for amendment of environmental clerance of Shyam Metalics & Engergy Limited	Centre For Envotech And Management Consultancy Private Limited,	Dr. Rajesh Roshan Dash			
15	Remedial measures to be taken for repairing PSC Girder No-17 of Railway Bridge over the IOCL Pipeline AT MMLP-Paradip (Odisha)	Amulya Kumar Dash	Dr. Goutam Mondal			
16	Mix designs for BHEL Talcher	RDC Concrete India Private Limited	Prof. Dinakar Pasla			
17	Carrying out the Third Party Quality Assurance Consultancy (TPQAC) for the construction and development of Kendriya Vidyalaya School at Kakinada Andhra Pradesh	M/s Saroj Construction Prof. Dinakar Pa				
18	Proof checking of structural design and drawing of the bridge across simuli nallah, Keonjhar	Executive Engineer, N.H. Division, Keonjhar	Dr. Suresh R Dash			
19	Structural adequacy of the existing plants (1,2,3) and dam administrative building	Global Lab Material Testing Private Limited	Dr. Jothi Saravanan Thiyagarajan			

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
20	Structural Design Suggestion for restoration of P8 and strengthening of P9 and P11 of Belabahali Major Bridge LHS at Km 35+341 of New NH-20, Odisha	Bloom Companies, LLC	Dr. Suresh R Dash
21	Rut Test for DBM-2 Grade HMA	DCC Infra Projects Limited	Dr. Anush K. Chandrappa
22	Vetting of structural design and drawing of G+7 storied (Block-A) and B+G+4 (Block-B) Hotel and Convention centre of MAYFAIR Sanctuary	M/S Mayfair Hotels & Resorts Ltd.	Prof. S. K. Panda
23	Carrying out The Third Party Quality Assurance Consultancy (TPQAC) for the Construction and Development of Kendriya Vidyalaya School at Balasore district, Odisha	Singhal Enterprises C/o NPCC Ltd	Dr. Dinakar Pasla
24	Proof checking of Elevated service Reservoir on precast basis at Dharmasala, Rasulpur & Danagadi	M/S KEC INTERNATIONAL LTD.	Prof. Sumanta Haldar
25	Stabilization of Soil using Etonis 1400S for application in Road Pavements	Wacker Chemie India Private Limited	Dr. U. C. Sahoo
26	Proof checking of design and drawings for the three lane bridge over railway track between Mancheswar-Vanivihar	M/s Rail Vikas Nigam Limited	Dr. Dinakar Pasla
27	Proof checking of Design and Drawing of POT PTFE Bearings for ROB at MCL Talcher	RKD INFRA C/o RITES Ltd Bhubaneswar	Dr. Suresh R Dash
28	Scrutiny of Chimney design calculations & Drawings (For WHRB & CFBC Chimneys)	MGM minerals limited	Dr. B Hanumantha Rao
29	Durability Testing of Soil Stabilised with Soil Tech MK III as per IRC: SP 89 (PART-II)-2018	Polymer Pavements India LLP	Dr. U C Sahoo
30	Mix design for SCC for SCB Medical College Cuttack	Larsen and Toubro - Infrastructure Vertical	Dr. Dinakar Pasla,
31	Proof checking of desing and drawing of 1 x 11.65m RCC Slab Bridge	ISC projects pvt Itd	Dr. Suresh R Dash
32	Proof checking of Design and Drawing of substructure for elevated double track viaduct at GUA Railway station Jharkhand	RITES Ltd (Bhubaneswar)	Dr. Suresh R Dash
33	Structural adequacy of existing water tank for 1.5m and 3m steel pole on top	JHAMUNA Tower Tech Private Limited	Dr. Jothi Saravanan Thiyagarajan
34	Proof checking of structural design of Lube Hub (34x75m) in size for foundation and superstructure	M/s CREATIVE Studio	Dr. Devesh Punera
35	Structural vetting of RCC culvert bridges, and station buildings	M/s PIR Projects and Consultancy Private Limited	Dr. Goutam Mondal
36	Vetting of Ardent GHG Emission Report	Centre for Envotech and Management Consultancy Private Limited,	Dr. Rajesh Roshan Dash
37	Carrying out The Third Party Quality Assurance Consultancy (TPQAC) for the construction and development of Kendriya Vidyalaya School at Vyasnagar, Jajpur District, Odisha	arrying out The Third Party Quality Assurance onsultancy (TPQAC) for the construction and evelopment of Kendriya Vidyalaya School at	
38	Mix design of DBM and DAC of Hirasar Airport, Rajkot	Yashnand Engineers and Contractors Private Limited	Dr. Anush K Chandrappa

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
39	Design of SCC for the Construction of Parshuramji Statue at Arunanchal Pradesh	M/s Vipra Foundation	Dr. Dinakar Pasla
40	Mix design for Bridge work of East Coast Railway, Jajpur	TRENZET INFRA PRIVATE LIMITED C/o East Coast Railway, Jajpur	Dr. Dinakar Pasla,
41	Carrying out The Third Party Quality Assurance Consultancy (TPQAC) for the construction and development of Kendriya Vidyalaya School at Dharmagard, Kalahandi, Odisha	M/S- Baishnab Charan Nayak C/O NPCC Ltd	Dr. Dinakar Pasla
42	Mix Design of BSM using RAP and BitChem Tailor Made Cold Binder/Emulsion for NH-2, Bardhaman, WB	BITCHEM Asphalt Technologies Ltd.	Dr. U. C. Sahoo
43	Characterization of Polymer and Crumb Rubber Modified Bitumen	BITCHEM Asphalt Technologies Ltd.	Dr. Anush K Chandrappa
44	FOS measurement of tailings dams-2021 of Vedanta Limited, Lanjigarh	M/S Vedanta Limited Aluminium & Power	Dr. B. Hanumantha Rao
45	Design of ground improvement work in connection with RoB in MCHP area of Paradip Port Authority, Odisha	Indian Port Rail & Ropeway Corporation Limited	Dr. B. Hanumantha Rao
46	Review of the Road Structure Design of the Perimeter Road at Rambilli near Visakhapatna	Director General Naval Projects	Dr. U. C. Sahoo
47	Mix designs for Township at Chhattisgarh	JMC Projects (India) Limited	Dr. Dinakar Pasla
48	Mix design for construction of deparmtnetal building for Postal department at Cuttack	A B INFRA PROJECTS, C/o Depatment of Post, Cuttack	Dr. Dinakar Pasla
49	Construction of Plant roads, drains, culverts and truck parking	Talcher Fertilizers Limited C/O Rcf Limited	Dr. B Hanumantha Rao
50	Design of internal road witthin RMP for mud transport	M/S. Utkal alumina international ltd.	Dr. B Hanumantha Rao
51	Proof checking of a single storey building	M/S GODGRACE Infrastructure and co	Dr. B Hanumantha Rao
52	Geotechnical investigation and Foundation Design System at DRI, SMS 1&2 and CPP Project site	MGM MINERALS LIMITED	Dr. B Hanumantha Rao
53	Design verifications of security wall	M/s LIRA Constructions Private Limited, C/o MES Chandipur, Odisha	Dr. Dinakar Pasla
54	Design of PQC for MES Chandipur	M/s LIRA Constructions Private Limited, C/o MES Chandipur, Odisha	Dr. Dinakar Pasla
55	Proof checking of 2 Nos. of Bridges at MCL Sardega	M/s RITES Limited	Dr. Suresh R Dash
56	Repair/Re-erection Decision of 50m SS Tower at AIR, Puri	Prasar Bharati Broadcasting Corporation Of India	Dr. Goutam Mondal
57	Technical report on new SW RMF: Pollution load to the first level aquifer and site location of the new RMF unit	M/S Vedanta Limited Aluminium & Power	Dr. B Hanumantha Rao,
58	Proof Checking for the construction of 132 Nos Type II Quarters at Old Kalyan Mandap in Unit VIII and 84 nos Type IV Quarter near old AG Colony, in Unit IV, Bhubaneswar	Shreejikrupa Project Limited	Dr. Goutam Mondal

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
59	Carrying out the vetting of warehouse of Coca Cola Beverages Pvt Ltd Khorda	Ratna Infrastructures	Dr. Dinakar Pasla
60	TPQA Services for Five Tribal Schools of Odisha	Wapcos Limited	Dr.Dinakar Pasla
61	Proof checking of ROB of NH-16, Bhadrak- Balasore road project for SE Railway	BRIJ Gopal Construction Company Private Limited	Dr. Sumanta Haldar
62	Surface run-off management study for kurmitar iron ore mines of OMC	M/s OMC Ltd	Dr. Arindam Sarkar
63	Vetting of structural stability of railway bridges	BECQUEREL INDUSTRIES PRIVATE LIMITED	Dr. B Hanumantha Rao
64	Vetting the desing and drawing report of gabion wall as a part of WMumbai Coastal Road Project (South) package II	GABION TECHNOLOGIES INDIA PRIVATE LIMITED	Dr. B Hanumantha Rao
65	Proof checking of FOB at Ranchi Coast Railway	RAIL VIKAS NIGAM LIMITED	Dr. Dinakar Pasla
66	Vetting of Retaining Wall Design, Drawing and Methodology for Repairing of RE wall at km. 349+580 LHS Singhara-Binjhabahal section of NH-6	M/S MONTECARLO LIMITED	Dr. U C Sahoo
67	Rut Test for BC Grade Mixture	DILIP BUILDCON LIMITED	Dr. Anush K Chandrappa
68	Assesment of soil strength using MASW test at Cuttack	AIMIL LTD	Dr. Sumanta Haldar
69	Vetting of desing of embankment for rail track in Ananta CHP Talcher	MAHANADI COALFIELDS LIMITED.	Dr. Sumanta Haldar
70	Testing of FlyAsh as per IRC SP 58-2001 to use as an Embankment Fill Material	Rkd Construction Pvt Ltd.	Dr. U C Sahoo
71	Proof checking of Hanger door for AAI, BBSR	Technocrats Security Systems Private Limited	Dr. Sumanta Haldar
72	Investigation of RE wall Failure at km. 349+580 LHS Singhara-Binjhabahal section of NH-6	Project Director Project Implementation Unit Keonjhar	Dr. U C Sahoo
73	Third Party Construction Quality Testing of Jamujhadi-Basudevpur Dhamar Road	UMSL LTD	Dr. U C Sahoo
74	Proof checking of 3 different height retaining walls at CRWC-Mancheswar	M/s RITES Limited	Dr. Suresh R. Dash
75	Stabilization of Steel Slag usingg Novocrete	Nisco Builders and Developers Private Limited	Dr. U C Sahoo
76	Scrutiny of Structural design and drawings for Portal at Adityapur and Tata Nagar Railway Station	M/S KEC INTERNATIONAL LTD.	Dr. Suresh R. Dash
77	Mix design for Self Compacting Concrete for SCB Medical College Cuttack	NCC Limited	Dr. Dinakar Pasla
78	Water Quality Analysis and Interpretation to check its suitability for construction purpose	NCC Limited	Dr. Manaswini Behera
79	Vetting of Traffic Assessment Report for Shree Ram Construction housing and commercial building project for Environmental Clearance	Centre For Envotech And Management Consultancy Private Limited	Dr. Partha Pratim Dey
80	Mix designs for Koraput district	JMC Projects (India) Limited	Dr. Dinakar Pasla
81	Proof checking of Road Mix Design for Hirasar Inteernational Airport, Rajkot	Yashnand engineers and contractors private limited	Dr. Anush K Chandrappa

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
82	Vetting of the technical report on slope stabilzation at P4-P5 Noney, Manipur	Gabion technologies india private limited	Dr. B Hanumantha Rao
83	Soil Core Sample Testing	Re sustainability limited	Dr. B Hanumantha Rao
84	Consultancy services for Structural Peer Review at Ariana Project	M/s kriday realty pvt ltd	Dr. Dinakar Pasla
85	Conducting detailed design consultancy service for ground improvementt with PVD (prefabricated vertical drains) at high bank locations	Indian port rail & ropeway corporation limited	Dr. B Hanumantha Rao
86	Mix design for Construction of Infrastructure Augmentaion under GE Chilka	Shri gurmukhdas contractors private limited	Dr. Dinakar Pasla
87	Mix Design for structural grade concretes for MGM Plant	Gannon dunkerley & company limited	Dr. Dinakar Pasla
88	Hydrological studies under basement area at TaTa Ariana Bhubaneswar	M/S KRIDAY Realty Pvt Ltd	Dr. Arindam Sarkar
89	Review of design drawings for construction of ground improvement project at red mud stack at Vedanta lanjigarh, Odisha	GARWARE Technical Fibres Limited	Dr. B Hanumantha Rao
90	Dyke & stack stability study of Part-A and red mud storage plan for plan-B	M/S. UTKAL Alumina International Ltd.	Dr. B Hanumantha Rao
91	Proof Checking of Design and Drawing of Substructure and Foundation for ROB on NH143 at Champajharan	RKD Construction Pvt Ltd.	Dr. Suresh Ranjan Dash
92	Geotechnical strength of the earthen embankment and Soil Thickness measurement" for Ash Dyke area of Vedanta Limited at Jharsuguda	Centre For Envotech and Management Consultancy Private Limited	Dr. B Hanumantha Rao
93	Proof Checking of Design and Drawing of one ROB and two Non-RDSO standard Minor Bridges for Railway siding at GUA Railway Station, Jharkhand	RITES Ltd (Bhubaneswar)	Dr. Suresh Ranjan Dash
94	Mix Design for redevelopment and expansion of SCB Medical College, Cuttack under Phase-I	Larsen & Toubro Limited	Dr. Dinakar Pasla
95	Vetting of Traffic Assessment Report for Grand Riviera residential building project for Environmental clearance	Grand Bazaar Developers Llp	Dr. Rajesh Roshan Dash
96	Mix design and testing of construction materials for SCB Medical College Cuttack	NCC Limited	Dr. Dinakar Pasla
97	Technical Support to PMGSY Projects through Laboratory Testing	ARYA CONSTRUCTION C/o Rural Works Department, GoO	Dr. U C Sahoo
98	Proof checking of Design and drawing of Superstructure, Substructure and bearing for the Proposed bridge crossing IOCL Pipelines in connection with proposed Multi-Model Logistic Park/Container Terminal at Paradeep (Odisha)	Container Corporation Of India Limited	Dr. Goutam Mondal
99	Engineering operations philosophy for long term mud management of pond B	M/S. Utkal alumina international ltd.	Dr. B Hanumantha Rao
100	Design vetting of the technical report for the proposed gabion wall reinforced by the anchor	M/s Gateway Office Parks Private Limited	Dr B Hanumantha Rao
101	Proof checking of Design and Drawings for a Two Lane bridge at Km 432/25-27 over Rly track between Mancheswar-Vanivihar	M/s Rail Vikas Nigam Limited	Dr. Dinakar Pasla

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)	
102	Carrying out Proof Checking Overhead Structural Utility Gallery for Tata Steel Kalinganagar	Tata Steel Limited	Dr. Dinakar Pasla	
103	Manufacturing of Building Blocks	M/S Tata Steel Limited	Dr. Dinakar Pasla	
104	Carrying out the vetting of PEB at Hindustan Coca Cola Beverages Pvt Ltd (Building structure design vetting under NBC- for building > 15meters)	AEDBM Consultants Private Limited C/o Hindustan Coca- Cola Beverages Pvt Limited, BBSR	Dr. Dinakar Pasla	
105	Proof check for major bridge no. 12,13 and 35 for the work "Development for railway infrastructure up to 4 MTPA plant expansion" of Vedanta Limited, Jharsuguda	Indian Port Rail & Ropeway Corporation Limited	Dr. Devesh Punera	
106	Proof Checking of Bridge No.02 (1 X 6 m RCC Slab + 1 X 48.0 m Bow String Girder + 1 X 6 m RCC Slab)	Indian Port Rail & Ropeway Corporation Limited	Dr. Devesh Punera	
107	Mix designs for Cuttack Water Supply Project	JMC Projects (India) Limited	Dr. Dinakar Pasla	
108	Vetting/Consultancy for - "Execution of Rural Piped Water Supply Project pertaining to Ranipada cluster of Banpur Block of Khorda district including five years Operation & Maintenance	M/s UMSL Ltd	Dr. Arindam Sarkar	
109	Monitoring and remedial measures for controlling settlement on the embankment for Kolkata Metro	M/s Rail Vikas Nigam Limited	Dr. Sumanta Haldar	
110	Surface Run-Off Management Study at Gandhamardan Iron Ore Mine Block-A & Block B, M/s OMC Ltd located in Telkoi Tahasil of Keonjhar District Odisha	M/s OMC Ltd	Prof. R K Panda	
111	Water management at MGM Minerals Limited, Dhenkanal	M/S. MGM Minerals Limited	Dr. Arindam Sarkar	
112	Rehabilitation and Up-gradation of Road from Km 0.000 to Km 16.290 (Lenggth-16.290 km) of Manu-Lalcherra section of NH 44A to two lane with Paved shoulder in the state of Triupra on EPC basis (pkg-1)- safety consultant service reg.	M/s SSK Infrastructures	Dr Partha Pratim Dey	
113	Product development and technical support for cold mix Asphalt Application in Eastern India	Bitchem Asphalt Technologies Ltd	Dr. U C sahoo	
114	Database for Principal Technical Agency & State Technical Agency for states of Jharkhand and Odisha	NRRDA	Dr. U C Sahoo	
Sch	ool of Mechanical Sciences			
115	Residual stress measurement in welded pipes and plates	M/S Tata Steel Limited	Prof. M M Mahapatra	
116	Development of Drone System for Cleaning High Rise Buildings & for spraying Pesticides	SUN FIBO Technology Private Limited	Dr. Yogesh Ganpat Bhumkar	
117	Design Review for Multi variable Industrial Sensor	HONEYWELL technology solutions lab pvt. Ltd.	Dr. Venugopal Arumuru	
118	Determination and Analysis of Residual Stress in Aero Engine Compressor Rotor	Indian Air Force	Dr. Manas Mohan Mahapatra	
Sch	ool of Minerals Metallurgical and Material	s Engineering		
119	SS310 Testing by IIT BBSR for SAP HRS TOWER and TFR PIPING	M/s Paradeep Phosphates Ltd.	Dr. Srikant Golapudi	

S. N.	Title of the Project	Name of the Funding Agency	Name of the Faculty (Principal Investigator)
120	Testing of steel samples collected from various stel plants	Chief Engineer Rd & Qp (R&B) BBSR	Dr. Soobhankar Pati
121	The microstructural characterization of advanced high strength steel and suggestions to improve the properties	M/s. Jindal stainless limited	Dr. Rama Krushna Sabat,
122	Accretion control in kins to enhance campaign life from 60 days to 90 days	Shri Mahavir Ferro Alloys (P) Ltd	Prof. Brahma Deo

SPARC Project Carried Out During 2022-23

S. N.	Project Cod & Title	Name of Project In charge	Name of the International Investigators	Name of the University
1	Code: P701: Title: Securing Implantable		Dr. Parth S Roop	The University of Auckland, New Zealand
	Medical Devices using Formal Methods	Medical Devices using Formal Dr. S. Pinisetty		The University of Auckland, New Zealand
2	Code: P420		Prof. Sunil Kumar	New York University(NYU), USA
	Title: Computationally Guided Laser Based Tumor Diagnosis and Therapy	Prof. S. K. Mahapatra	Prof. Zhixiong Gou	Rutgers University- (New Brunswick), USA
			Prof. Kunal Mitra	Florida Institute of Technology, USA
3	Code:P275		Dr. Michael Brown	University of Dundee, UK
	Itle:Design and Development of Low-Cost, Easy to Install, Sustainable Foundations for Renewable Energy Devices	stainable Foundations for	Dr. Jonathan knappett	University of Dundee, UK
4	Code: P468 Title:E3DCRM: Energy- Efficient Embedded Systems for Data-Driven Cardiac Rhythm Monitoring	Dr. M. S. Manikandan & Dr. Srinivas Boppu	Prof. Keshab K. Parhi Dr. Alena Talkachova	University of Minnesota, USA University of Minnesota, USA
5	Code: P712 Title: Rigorous Verification and	Dr. Manoranjan	Prof. Laxmi Narayan Bhuyan	Univeristy of California, USA
	Validation of Memory Systems in Heterogeneous	Satpathy	Dr. Sumit Kumar Jha	University of Central Florida, USA
			Prof. S Ramesh	General Motor R & D, USA
6	Code: P1080 Title: Stakeholder-		Dr. Meghna Babbar- Sabens	Oregon State University, USA
	driven Decision Support Cyberinfrastructure for	Dr. Meenu Ramadas	Dr. Jenna Tilt	Oregon State University, USA
	Empowering Rural Communities to Plan for Water-Agro-Energy Climate Resiliency.	Mr. Suresh Marru	Indiana University Bloomington, USA	
7	Code: P680 Title: Wearable devices based	Dr Pajan Iba	Dr. Lei Wei	Nanyang Technological University, Singapore
	on multi material and post processed fiber	Dr. Rajan Jha	2.Dr. Rajan Singh	Nanyang Technological University, Singapore

S. N.	Project Cod & Title	Name of Project In charge	Name of the International Investigators	Name of the University
8	Code: P879 Title: A Novel Biotreatment of Bauxite Residue for Conversion into Sustainable Geomaterial	Dr. Hanumantha B. Rao	Prof. Krishna R Reddy Prof. Craig D Foster	University of Illinois, Chicago(UIC), USA University of Illinois Chicago(UIC), USA
9	Code: P1249 Title: Stochastic Geometry-	Dr. Barathram	Dr. Harpreet S Dhillon	Virginia Polytechnic Institute (Virginia Tech)
	based Design of UAV-Assisted IoT Network for Ubiquitous Surveillance Applications	Prof. Michael R. Buehrer	Virginia Polytechnic Institute (Virginia Tech)	
10	Code: P1167 Title: Design and Development	Dr. Subhransu	Dr. Virgilio A Centeno	Virginia Polytechnic Institute (Virginia Tech)
	of Low cost Time Synchronized Ranjan devices for WAMs in Smart-Samantaray Grids	Prof. Chen-Ching Liu	Virginia Polytechnic Institute (Virginia Tech)	
11	1 Code: P744 Title: Aluminium-Cerium based Dr. Animesh alloys for high temperature applications Mandal	Prof. Hari-Babu Nadendla	Brunel University	
		Dr. Brian McKay	Brunel University	

Patents Filled

S.N.	Title	Name of the inventor/s	Application No.	Year	School
1	A System and a Method for Focusing of Jets	Dr Venugopal A and Mr Jangyadatta Pasa	202331033790	2023	SMS

Patents Granted

S.N.	Title	Name of the inventor/s	Application No.	Patent Grant Number	School
1	Porous Silicon from Metal- Silicon Alloy and Process for its Manufacture	Dr. Kishor K Sahu, Dr. Shoobankar Pati, Dr. Animesh Mondal, Mr. Anil D Pathak	201631017873	419812	SMMME
2	Nano fillers reinforced polymer composites wrap to repair damaged steel pipelines	Vishwas Chandra Khan, Dr.Balaganesan Guruswamy, Dr. Mihir Kumar Pandit, Mr. Tushar Gautam, Dr. Arun Kumar Pradhan, Aditya Kumar Gupta	201731007916	408385	SMS
3	A single unit fixed bed reactor for simultaneous hetero- trophic nitrification-aerobic denitrification adsorptive coupled denitrifying phosphate removal from waste water	Dr. R.R.Dash, Dr.P. Bhunia and Mr. Prangya Ranjan Rout	201731036014	394070	SIF

Invited Lecture /Presentation/Conference/Workshop/ Programmes/Seminar/ Lecture/ Colloquium by Faculty

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
Sch	ool of Basic Sciences			
1	Analysis and optimal control in an MX/G/1 queueing model with heavy-tailed service time distribution	an MX/G/1 queueing model Chaudhry, M., and Optimization, Learning, and Analytics in Business (OLAB 2022) from 15th-		
2	Holographic local quench, complexity and chaos	Dr. Chandrasekhar Bhamidipati	XXV DAE-BRNS High Energy Physics Symposium 2022, IISER Mohali	
3	Logarithmic Corrections to Black hole entropy from holographic extended thermodynamics	Dr. Chandrasekhar Bhamidipati	Current Topics in String Theory and Cosmology, NISER Bhubaneswar	
4	Logarithmic Corrections to Black hole entropy and Holography	Dr. Chandrasekhar Bhamidipati	Bal-Fest Quantum Field Theory in Quantum Spacetime, IMSc, Chennai	
5	Novel Logarithmic Corrections to Black hole entropy	Dr. Chandrasekhar Bhamidipati	Regional String Meeting, NISER Bhubaneswar Sept 5 - 9, 2022	
6	Defect-mediated enhancement of sensing and energy storage performance of nanostructured materials	Dr. Shyamal Chatterjee	IUMRS – ICA 2022, IIT Jodhpur, December 19-23, 2022	Invited speaker (offline)
7	First principles theory-based approach to understand ion beam modification of nanostructured surfaces	Dr. Shyamal Chatterjee	Workshop on the In silico Quantum Modelling Studies, IUAC, New Delhi, Oct 30 to Nov 03, 2022	Invited speaker (offline)
8	A novel approach to manipulate ceramic nanostructures for applications in energy storage and coating	Dr. Shyamal Chatterjee	International conference on recent advances in materials (ICRAM - 2022), 21st - 23rd march, 2022, CUTM, Bhubaneswar	Invited speaker (online)
9	Baker omitted value	Dr. Tarakanta Nayak	Complex dynamics: connections to other fields, 27-31 March 2023	Held At Checiny, Poland
10	Chebyshev's method: Dynamics and Symmetry	Dr. Tarakanta Nayak	37th Annual Conference, 6-8 December 2022 of Ramanujan Mathematical Society	Held at Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamilnadu
11	Fixed points of a polynomial: A conjecture and Beyond	Dr. Tarakanta Nayak	Seminar, 10 September 2022	Held at National Institute of Science and Technology, Berhampur, Odisha
12	Applications of spectral graph theory	Dr. Sasmita Barik	IBRO Spring School on Computational Neuroscience and Artifician Intelligence, IIT Delhi, March 9-13, 2023.	
13	Domain Decomposition Methods for Optimal Control Problems	Dr.Bankim Chandra Mandal	CIRM, France	
14	Scanning Tunneling Microscopy, Spectroscopy, and More	Dr. Avijit Kumar	High-End Workshop on Scattering Methods (Electron, X-ray, and Ion beam) for Materials Characterization	

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
15	Concepts of Chemistry through Applications: A Thought Provoking Teaching for Engineering Graduates	Dr. Vijayakrishna Kari	Recent advances in chemistry for various engineering disciplines, RACED-2022, Vizag, 28-10-2022 to 02-11-2022	Delivered Invited talk
16	Imidazolium based Chiral Poly(Ionic liquids): Synthesis and their Morphological Study	Dr. Vijayakrishna Kari	Recent Trends in Chemical Sciences - 2022, IIT Dhanbad, December 16-18, 2022	Delivered Invited lecture
17	Functional Polymers in Green Chemistry	Dr. Vijayakrishna Kari	Organo- & Electrocatalysis for Sustainable Synthesis (OECSS-2022), IIT Bhubaneswar, December 22-23, 2022	Delivered Invited lecture
18	Polymer concepts for Engineers	Dr. Vijayakrishna Kari	CIPET, Bhubaneswar, Invited talk on 16-02-2023	CIPET, Invited talk to their B.Tech students
19	Sato-Tate distribution for p-adic hypergeometric functions	Dr.Neelam Saikia	COmbinatorial Number Theory And Connected Topics (CONTACT -II)	Invited speaker
20	Role of Spectroscopic Techniques in Synthetic Methods Development & Application in Natural Product Synthesis	Dr. Tabrez Khan	ESTUOM-2023	Invited lecture
21	Bohr phenomenon for harmonic Bloch functions on simply connected domains	Dr. Vasudevarao Allu	VIII International Conference of Mathematics and Computer Science "Congressio Mathematica, Universit y of Warmia and Mazur y in Olszt y n, Poland, durin g September 19–25, 2022.	Plenary talk
22	The Bohr phenomenon for Banach Spaces-II	Dr. Vasudevarao Allu	Wuerzburg Complex Analysis Seminar, University of Wuerzburg, Germany on April 11th, 2022.	Invited Talk
23	Complex Analysis	Dr. Vasudevarao Allu	Annual Foundation School - I (AFS-I)" at the Department of Mathematics, NIT Durgapur, during December 12, 2022 to January 7, 2023.	Series of Lectures for 5 days
24	Bohr and Rogosinski inequalities for operator valued holomorphic functions	Dr. Vasudevarao Allu	37th Annual Conference of Ramanujan Mathematical Society during 06 - 08, December 2022.	Invited Talk
25	On logarithmic coefficients problem for univalent functions	Dr. Vasudevarao Allu	One Day International Symposium on Mathematical Analysis on the occasion of National Mathematics Day (134th Birth Anniversary of Srinivasa Ramanujan) Amity University, Haryana 22-12-2022.	Invited Talk
26	Bohr radius for certain classes of analytic and harmonic mappings	Dr. Vasudevarao Allu	IIT Tirupathi on 18-11-2022.	Invited Talk
27	Assembly of atomic gold clusters to a chiral molecular magnet	Dr. S. Rath	MAGNETISMMEET-2023, May 16- 18, 2023	
Sch	ool of Electrical Science	5		
28	Understanding Electric Vehicles from an Electrical Engineer's perspective	Dr. Olive Ray	Short Term Course in Electric Vehicle Technologies	
29	Electric Vehicle Subsystems and Can we make them Smarter?	Dr. Olive Ray	NWSTG 2023	

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
30	Phased Array Radar & High Frequency Doppler Radar System	Dr. D. Ghosh	Ballistic Instrumentation, 16 to 20 Jan'2023. PXE, DRDO,	
31	Enforcing Data Security in Cloud using Advanced Cryptosystems and Robust Adaptive Cloud IDS using Advanced Deep Reinforcement Learning	Dr. Padmalochan Bera	FDP on Cloud and Fog Computing Platforms for IoT Applications, NIT Warangal	
32	Budget-constrained Controller Placement in Software-defined Network	M. Priyadarsini, Dr. Padmalochan Bera	24th ACM ICDCN 2023, Jan 4-7, 2023	
33	IEEE Day Lecture	Dr. Padmalochan Bera	ITR, Chandipur, 12th October 2022	
34	Invited Lecture on Al for Cyber Security - a research roadmap	Dr. Padmalochan Bera	ARISE, UIC, USA, Sept 1, 2022	
35	Formal runtime monitoring and its applications combined with Al for healthcare	Dr. Srinivas Pinisetty	Data engineering and communication technology NCDECT 2023	24th and 25 February 2023
36	Empowering India's rural population with community microgrids, two pilot projects under execution.	Dr. Srinivas Bhaskar Karanki	RECENT DEVELOPMENTS IN SMART GRID TECHNOLOGIES (NWSGT-2023)	Invited Speaker for a Session
37	Design and Development of Cost-Effective Floating- Solar Energy Generation Technologies and Infrastructure for Achieving Nearly Zero- Energy Villages	Dr. Srinivas Bhaskar Karanki	Voltage Fluctuation Control Technique in Solar Energy and Future of EVs in Indian Market 6th March 2023	Invited Speaker for a Session
38	Renewable Energy EMPOWERing European and InDian communities (RE- EMPOWERED)	Dr. Srinivas Bhaskar Karanki	Indian Enegery Congress (IEC), 14th May 2022	Invited Speaker for a Session
39	DC-DC Converters for Renewable Energy Integration	Dr. Srinivas Bhaskar Karanki	RGUKT-Nuzid, April 8th 2022	Invited Speaker
40	Development of Optimization Algorithm for Sizing and Placement of Battery Energy Storage Systems in Distribution Network	Dr. Srinivas Bhaskar Karanki	BIT Sindri, 14th July 2022	Invited Speaker
41	Development of Optimization Algorithm for Sizing and Placement of Battery Energy Storage Systems in Distribution Network	Dr. Srinivas Bhaskar Karanki	GPREC RAEE, 2022	Invited Speaker
Sch	ool of Earth, Ocean and	Climate Sciences		
42	Simulations of monsoon depressions over the Bay of Bengal using coupled and atmospheric regional models	Tapajyoti Chakraborty, Dr. Sandeep Pattnaik*, and Himadri Baisya	WCSSP-India Annual Science Workshop 2023, 1-3 March 2023	Invited Lecture
43	Challenges in Severe weather prediction in a climate change scinerios Utkal University World Environment Day Workshop	Dr.Sandeep Pattnaik	World Environment Day Workshop 05 June 2022	Invited Lecture
44	Climate change and Extreme weather events	Dr.Sandeep Pattnaik	Oritentation course, 01 November 2022, KBCOS Allahabad	Invited Lecture

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
45	Challenges in Predicting Extreme Weather Events in Climate Change Scenarios	Dr.Sandeep Pattnaik	Climate and Energy Workship, 23 March 2023	Invited Lecture
46	Variability of tropical atmosphere	Dr.K. Landu	Faculty refresher course in Global Warming and Sustainable development, 2022	
47	A multiproxy approach to access the coastal lagoon environment -A case study of Chilika lagoon	Dr. R.K. Singh	XXII-Referesher Courses in Environmental Sciences, University of Madras, 2022, 1.5 hours	
48	Evolution and variability in the Asian Monsoon System, since the late Miocene	Dr. R.K. Singh	Monsoon Seminar Series, 1 Hour	Talk link: https:// www.youtube.com/ watch?v=exL_R1RCshM
49	Application of benthic foraminiferal proxies to assess the palaeoceanographic and palaeoclimatic variability	Dr. R.K. Singh	28th Indian Colloquium of Micropaleontology and Stratigraphy	Key note talk; Link: https:// www.youtube.com/ watch?v=byr1y5y9IQE
50	Sustainable Development: Role of Ocean and its Observations and Modelling systems	Dr.Sourav Sil	UGC-HRDC Faculty Refresher Course Global Warming and Sustainable Development University of Allahabad, Prayagraj, Uttar Pradesh.	November 09, 2022
51	Role of Oceans for the Sustainable Society and Environment.	Dr.Sourav Sil	Geographical Approaches for the Sustainable Society and Environment, School of Geography, Gangadhar Meher University, Sambalpur,	December 11, 2022
52	GIS & Remote Sensing Applicationa in Surveying (Range Mapping, Tide Prediction, Ricochet Study)	Dr.D. Swain	CEP Course on Surveying Techniques for Armament Test & Evaluation, Proof & Experiment Establishment (PXE), DRDO, Balasore, 20th to 22nd Sep. 2022	Invited Speaker, CEP programme conducted by DRDO, Govt. of India
53	Exploring the Oceans from Space: A dive from the dark unknown into the blue unknown	Dr.D. Swain	2022 International Workshop on Remote Sensing & Applications by Technology Innovation Hub, ISI Kolkata & IEEE GRSS Kolkata Chapter, 13th Aug. 2022	Invited Resource Person
54	Secrets of the Ocean	Dr.D. Swain	Science & Technology Conclave- SAITED, 7th Dec 2022, Sai International School, Bhubaneswar.	Invited Speaker
55	Quantification of the impact of Urbanization & Climate Change on the microclimate of Indian cities	Dr.D. Swain	3rd International Conference on Biodiversity and Climate Change: Sustainable Development Perspective (BDCC-2023), 16th-19th Feb. 2023, IIT Kharagpur	Keynote Talk
56	Indian Ocean Observing & Modeling	Dr.D. Swain and Dr.S. Sil	The Global Ocean Observation System, Co-Design Workshop: Tropical Cyclone Ocean Observations and Forecasting, 25th & 26th May 2022	Invited Talk
57	Understanding air Pollution over India	Dr.Vinoj. V	International Day of Clean Air for Blue Skies- 2022	
58	why Climate Change Matters	Dr.Vinoj. V	Global Warming and Sustainable Development, University of Allahabad	
Sch	ool of Infrastructure			
59	Advanced oxidation process for wastewater treatment	Dr.Remya Neelancherry	Siksha O Anusandhan Weekly Academic Lecture (SOAWAL)	

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
60	Advanced oxidation process for Environmental Remediation	Dr.Remya Neelancherry	Accelerate Vigyan Karyashala, NIT Rourkela	
61	Computer Vision Technique for SHM	Dr.Saravanan. T.J	Infrastructure Health Monitoring Expert Lecture Series at Mahindra University, Hyderabad, 2023, 1 hour	
62	FEW Nexus Approach for Building Resilience in Rural Agricultural Watersheds	Dr.Meenu Ramadas, Meghna Babbar- Sebens, Jenna Tilt	Natural Resources Management for Agricultural Resilience through Innovative Development ″ in Krushi Odisha 2023, February 18, 2023, at Bhubaneswar	
63	Probabilistic Models for Hydrometeorological Drought Frequency Analysis	Dr.Meenu Ramadas, Alok Samantaray	Drought Scenarios in Odisha: Adaptation & Mitigation Strategies, March 23, 2023	
64	Understanding Climate Change and its Impacts on Water Resources	Dr.Meenu Ramadas	Training on Roof Top Rainwater Harvesting Structure (RTRWHS) and WASH in Schools, Bhubaneswar, September 26-30, 2022.	
65	Role of IIT Bhubaneswar in REWARD-Hydrology: Methods and Modelling Approach	Dr.Meenu Ramadas	Orientation Workshop of REWARD- Hydrology, organized by OUAT Bhubaneswar during October 26-27, 2022	
66	Climate Resilient Pavements- Infrastructure for the Future	Dr.Sahoo U.C and Anupam B R	International Conference on Climate Resilient Construction and Building Materials, 3-5 March, 2023	
67	Cold Recycling of Bituminous Pavements	Dr.Sahoo U.C	National Seminar on Emerging Techniques in Pavement Stabilization, 10th March, 2023	
68	Design of Low Volume Roads Incorporating Stabilized Base Layers - An FDR Perspective	Dr.Sahoo U.C	Two-Day Conclave on Full Depth Reclamation for Low Volume Roads, 24-25 Feb, 2023	
69	Geotechnical Engineering - In Practice	Dr. Santhosh kumar G		ASCE Winter Camp, Amrita Vishwa Vidyapeetham, Feb 4, 2023
70	Novel Continuum Approaches for Modeling Material Interfaces and Brittle Fracture	Dr.Mohammad Masiur	Workshop on Metamaterials, 2023 at IIT Indore	Honorarium of 10,000 received
71	Earthquake Resistant Design of Bridges	Dr. Suresh R Dash	SOA Weekly Academic Lecture	03/09/2022, Bhubaneswar
72	Earthquake-resistant design of structure and overview of theory and practices	Dr. Suresh R Dash	C.V. RAMAN GLOBAL UNIVERSITY In Association with AICTE Margdarshak	10/Sept/2022, Bhubaneswar
73	Learnings through Failures - from Earthquakes	Dr. Suresh R Dash	Keynote Speaker at UltraTech Technical Meet	18/Jan/2023, Cuttack
74	Earthquake Related Failures & Effective Structural Restoration	Dr. Suresh R Dash	Keynote Speaker at UltraTech Technical Meet	22 Mar/2023, Berhampur
75	Learning from Failures during earthquakes	Dr. Suresh R Dash	Invited Talk at UltraTech Regional Technical Meet	24th March 2023. Ranchi, Jharkhand
76	Challenges in Foundation Design for Offshore Wind Energy Converters in Seismically Active Areas	Dr.Sumanta Haldar	One-day Workshop on Design of Monopile Foundations for Offshore Wind Turbines-Indian Scenario, 2022, 1 day	Guest speaker
77	Geopolymer concrete composites - Development and Applications	Dr.Dinakar Pasla	UKIERI Concrete Congress Proceedings of the International UKIERI Concrete Congress 14 - 17 March 2023 Sustainable Concrete Infrastructure	Key Note talk

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
78	Macrophyte Assisted Vermifilter (MAVF) For Decentralized Domestic Wastewater Treatment	1 Rajat Chandrakant Pundlik, Dr. Rajesh Roshan Dash, Dr. Puspendu Bhunia	National Conference on Chemical and Bio-Science" (NCCBS-2023), March 25-26th. 2023, Department of Chemical Engineering, VSSUT, Burla, Odisha	
Sch	ool of Humanities, Socia	Sciences & Mana	agement	
79	Wave of Public Philosophy: A Response or Assertion from an Indian Domain.	Dr. Richa Shukla	Special Lecture at IIT Bombay	
80	Role of Women in Vedic Philosophy	Dr. Richa Shukla	Special Lecture at Department of Philosophy, Savitri Bai University, Pune.	
81	Knowledge Framework & Classification	Dr. R Venkata Raghavan	Short Term Program on Indian Knowledge System, 2023, 16-21 January, 2023	Jointly organised by the Department of Commerce (DOC); Institute of Life Long Learning (ILLL); and Shri Ram College of Commerce (SRCC), University of Delhi. I took two sessions (1.5 hour duration each) on 17 January 2023
82	IKS and its useful sources for management courses	Dr. R Venkata Raghavan	Virtual Conference on Integrating IKS into Management Education, 2023, 25/02/2023	Organised by Centre for Educational and Social Studies (CESS), Bengaluru
83	'The Self, Discourse and Religion: Reconnoitering Habermas'	Dr. Sreetama Misra	Symposium on Agency, Mind and Value organized by the Department of Humanities & Social Sciences, IIT Bombay on 19th January, 2023	
84	'Critical Thinking: Addressing the Impediments through Environmental Philosophy'	Dr. Sreetama Misra	International Hybrid Conference on Outcome Based Education, Mahatma Gandhi University, Kottayam, Kerela from 10th Feb - 12th Feb, 2023	
85	'Democratization of Knowledge: Philosophical Possibilities and Reflections from the lens of Habermas'	Dr.Sreetama Misra	International Conference on Information Infrastructure of Social Science Research in India (IISSRI -2023) at IDSK Kolkata from 2nd March, 2023 - 3rd March, 2023	
86	Representation function , and Uncertainty	Dr. B K Sahoo	Invited Lecture at M.K. Bhavnagar University	online
87	Art and Science: Where the twain Meet	Dr. Amrita Satapathy	Women in Science on the occasion of International Women's Day organised by INYAS Kolkata- Bhubaneswar Chapter on 10 March 2023	Invited Speaker
88	"Biodiversity and Ecosystem Restoration" during the workshop conducted by the Tata Steel Foundation (TSF) on Climate Resilient Agriculture during 20th- 21st February, 2023.	Dr. Madhusmita Dash	Climate Resilient Agriculture during 20th- 21st February, 2023	Resource person and Discussant
89	Why Study Literature?	Dr. Punyashree Panda	ELIXIR Talk Series, January 2023, XIMB University, Bhubaneswar	Invited Talk

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
90	Mobility and Resistance of Bengali Detective-Flaneurs	Konar, Sayani and Dr.Punyashree Panda	Mobility and/as Resistance: The Political Project of Nomadism,2022,Maynooth University Arts & Humanities Research Institute and the Department of Humanities & Social Sciences, National Institute of Technology Silchar	Conference Paper
91	Activities of the Government and Economic Development of The South Asian Countries	Dr. D. Sahoo	international conference (Online) on "Public finance, Public policy and Economic development", 11th and 12th November 2022	
92	Infrastructure and local economic development	Dr. D. Sahoo	55th annual conference of OEA during February 11-12, 2023	
93	Financial Management and Budget Making	Dr Nihar Ranjan Jena	2022, 3 Days	Department of Agriculture, Government of Odisha
Sch	ool of Mechanical Scienc	ces		
94	Electrochemical micromanufacturing processes Electrochemical machining, hybrid ECM, Post-processing and additive manufacturing	Dr. Divyansh Patel	Modern Manufacturing in Industry 4.0 (MMI-2023)	FDP organized by Department of Mechanical Engineering, National Institute of Technology Delhi, India, held during February 07- 12, 2023.
95	Lecture to Government school students in Kallidai Kurichi, Tamil Nadu	Dr. Mahendaran Uchimali	Impotance of Science in Life	Motiation talk for the Tamil medium students
96	Pore-scale CFD Modeling of Thermal Energy Storage Systems	Dr.Anirban Bhattacharya	Workshop on Multiphase Flow and Heat Transfer	
97	Effect of Ultrasonic Vibration on Microstructural Evolution in case of Laser Cladding of Inconel and TiC/Inconel MMC	Shrey Bhatnagar, Biplab Kumar Dash, Hari Srinivasa Rao, Shubham Rao, Gopinath Muvvala, Dr. Suvradip Mullick	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2022), 08-10 Dec. 2022	Invited Talk
98	Modeling and simulation in conventional machining	Dr. Gaurav Bartarya	Modern Manufacturing in Industry 4.0, National Institute of Technology Delhi, Feb 10, 2023	Faculty Development Program
99	Modeling and simulation in conventional machining	Dr. Gaurav Bartarya	Advanced Technologies for Societal Applications, Dec 10, 2022, SVERI College of Engineering Pandharpur	International Conference
Sch	ool of Minerals, Metallur	gical and Materia	ls Engineering	
100	Thermoelectric materials and their devices: Current status, challenges and future prospects	Abhigyan Ojha and Dr.Sivaiah Bathula	National Conference on Advanced Functional Devices Materials, 27-28, February 2023, held at Acharya Nagarjuna University, Guntur, Andhra Pradesh	Keynote Speaker
101	Materials for Waste Heat Energy Conversion: Societal Applications	Abhigyan Ojha and Dr. Sivaiah Bathula	National Conference on Recent Advances in Functional Materials, 24-25 March 2023, held at Vignan University, Vadlamudi, Guntur	Invited Speaker
102	Lead magnesium niobate- lead titanate (PMN-0.3PT) piezoceramic and its composite for mechanical energy harvesting	Dr. Amritendu Roy	RAMM 2023	

S. N.	Title of Lecture/ Presentation	Author(s)	Conference Name, Year, Duration, Place	Remarks
103	Fundamentals of crystallography	Dr.Amritendu Roy	Expert Lecture in Two Weeks Refresher Course in Engineering Physics' w.e.f. 14.11.2022- 25.11.2022	
104	Fundamentals of powder x-ray diffraction	Dr.Amritendu Roy	Expert Lecture in Two Weeks Refresher Course in Engineering Physics' w.e.f. 14.11.2022- 25.11.2022	
105	Structural and electromechanical characterization of lead magnesium niobate-lead titanate (PMN-0.3PT) piezoceramic for mechanical energy harvesting	Dr.Abhishek Kumar, Dr.Amritendu Roy	AMPCO 2022. 17-19 Nov. 2022	
106	Effect of laser shock peening on the fatigue behavior of Nitinol shape memory alloy	Dr.Srikant Gollapudi, T. R. Dora	ICPCM, 2022, Dec 9 to 11	
107	Silicon for structural applications	Dr.Srikant Gollapudi, B. K. Samantaray	Materials 75, 2022, Dec 21 to 23	
108	Creep of thermally stable nanocrystalline materials: An analytical approach	Dr.S. Gollapudi, I. Wani, N. Rai	IIM-NMD Hyderabad, Nov 14th to 16th 2022	
109	Mechanism of microstructure and texture evolution during cyclic shearloading of AA6063 alloys	Dr. Rama K. Sabat, Waqas Muhammad, Raja K. Mishra, Kaan Inal	Platinum Jubilee Conference on " Perspectives in Materials Research", 2022, 21-12-2022 to 23-12-2022	
110	Ductility enhancement in Mg- 0.2%Ce alloys	Dr. Rama K. Sabat, A.P. Brahme, R. K. Mishra, K. Inal, S. Suwas	Nano SPD international conference, 2023, 26-02-2023 to 3-3-2023	
111	Electrifying Metal Production	Dr.Soobhankar Pati	Recent Advancements in Iron & Steel industries and Emerging areas" RAISE-2023	
112	Nanoporous Silicon Anodes for Lithium ion Batteries	Dr.Soobhankar Pati	Advanced Functional Materials (AFM-2023)	
113	Advance Cathodes and Anodes for Lithium ion Batteries	Dr.Soobhankar Pati	International Seminar on Confluence of Science Engineering: Exploring new Frontiers (CSEEF-2022)	

Seminar/ Conference / Workshop Attended by Faculty

S.	News	7 241 -	Da	tes	Disco	Demosika		
Ν.	Name	Title	From	То	Place	Remarks		
Scho	School of Basic Sciences							
1	Dr. Chandrasekhar Bhamidipati	Bal-Fest Quantum Field Theory in Quantum Spacetime	2023-01-09	2023-01-16	IMSc, Chennai			
2	Dr. Chandrasekhar Bhamidipati	Regional String Meeting	2022-09-05	2022-09-09	NISER, Bhubaneswar			
3	Dr. Chandrasekhar Bhamidipati	XXV DAE-BRNS High Energy Physics Symposium 2022	2022-12-12	2022-12-16	IISER Mohali			
4	Dr. Ashis Biswas	91st Annual Meeting of the Society of Biological Chemists (India)	2022-12-08	2022-12-11	Biswa Bangla Convention Centre, Kolkata	Acted as a judge to evaluate a poster session		

S.	News	T '41.	Dates		Dissa	Demoster
Ν.	Name	Title	From	То	Place	Remarks
5	Dr. Shyamal Chatterjee	Union of Materials Research Society, Materials Research Society of India cordially invites you to the International Conference in Asia - 2022 (IUMRS-ICA 2022)	2022-12-19	2022-12-23	IIT Jodhpur	Invited speaker (offline)
6	Dr. Shyamal Chatterjee	Workshop on the In silico Quantum Modelling Studies	2022-10-30	2022-11-03	IUAC, New Delhi	Invited speaker (offline)
7	Dr. Shyamal Chatterjee	International conference on recent advances in materials (ICRAM - 2022)	2022-03-21	2022-03-23	CUTM, Bhubaneswar	Invited speaker (online)
8	Dr. Sasmita Barik	International Conference on Number Theory and Graph Theory	2023-01-18	2023-01-20	Manipal Institute of Technology, Manipal	
9	Dr. Sasmita Barik	IBRO Spring School on Computational Neuroscience and Artificial Intelligence	2023-03-09	2023-03-13	IIT Delhi	
10	Dr. Neelam Saikia	COmbinatorial Number Theory And Connected Topics (CONTACT -II)	2023-02-04	2023-02-05	Online	Invited speaker
11	Dr. Palas Roy	OECSS-22	2022-12-22	2022-12-23	IIT Bhubaneswar	
Sch	ool of Electrical	Sciences				
12	Dr.Olive Ray	IEEE ISIE	2022-06-01	2022-06-03	Anchorage	Online mode
13	Dr.Olive Ray	IEEE ECCE	2022-10-09	2022-10-13	Detroit	Online mode
14	Dr.Olive Ray	IEEE IECON	2022-10-17	2022-10-20	Brussels	Physical Mode
15	Dr.Olive Ray	IEEE ONCON	2022-12-09	2022-12-11	Kharagpur	Online mode
16	Dr. Dipankar De	EPE 22 ECCE Europe Conference	2022-09-05	2023-05-09	Hannover, Germany	
17	Dr.Himanshu Pramod Padole	International Conference on the Paradigm Shifts in Communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS 2023)	2023-04-06	2023-04-06	VNIT Nagpur	
18	Dr.Anoop Thomas	2022 IEEE Information Theory Workshop (ITW 2021)	2022-11-01	2022-11-02	Mumbai	Attended Virtually
19	Dr. Padmalochan Bera	24th ACM International Conference on Distributed Computing and Networking	2023-01-04	2023-01-07	IIT Kharagpur	
20	Dr. Srinivas Pinisetty	19th IEEE International Conference on Software Architecture, ICSA 2022	2022-03-12	2022-03-15	Honolulu USA	Attended Virtually
21	Dr. Srinivas Pinisetty	28th International Symposium on Model Checking of Software	2022-05-21	2022-05-21	Virtual	
22	Dr. Srinivas Pinisetty	20th ACM-IEEE International Conference on Formal Methods and Models for System Design	2022-10-13	2022-10-14	Shanghai, China (attended virtual)	

S.		Dates			Demerika	
Ν.	Name	Title	From	То	Place	Remarks
23	Dr. Srinivas Pinisetty	22nd Intl. Conference on Runtime Verification	2022-09-28	2023-09-30	Tbilisi, Georgia (attended virtual)	
24	Dr. Srinivas Pinisetty	18 th International Symposium on Bioinformatics Research and Applications	2022-11-14	2022-11-17	Haifa, Israel (attened virtual)	
25	Dr. Srinivas Pinisetty	IEEE 35th International Symposium on Computer Based Medical Systems (CBMS)	2022-07-21	2022-07-23	Shenzhen, China (Online Event)	
26	Dr.Soumya Prakash Dash	IEEE Consumer Communications & Networking Conference (CCNC)	2023-01-07	2023-01-13	Las Vegas, Nevada, USA	
27	Dr. Joy Chandra Mukherjee	ICDCN	2023-01-04	2023-01-07	Kharagpur	
Sch	ool of Earth, Oce	ean and Climate Scienc	es			
28	Dr. Sandeep Pattnaik	WCSSP-India Annual Science Workshop 2023	2023-03-01	2023-03-03	NCMRWF Delhi	Invited Lecture
29	Dr. Sandeep Pattnaik	World Environment Day Workshop	2022-06-01	2022-06-01	Utkal University	Invited Lecture
30	Dr. Sandeep Pattnaik	8th Sustainable Summit	2023-02-01	2023-02-02	XIMB University	Scientific Committee
31	Dr.Yengkhom Kesorjit Singh	Study on characteristics and impact of Kalikhola landslide, Manipur NE India using UAV photogrammetry	2023-01-27	2023-05-31	IIT Gandhinagar	Climate Action Now Workshop
32	Dr. Raj Kumar Singh	28th Indian Colloquium of Micropaleontology and Stratigraphy	2022-05-04	2022-05-06	Savitribai Phule Pune University	Delivered Keynote and two students presented posters
33	Dr. Debadatta Swain	Webinar for the Education and Skill Sector	2022-02-25	2022-02-25	Online	Dept. of Higher Education, MoE, Govt. of India
34	Dr. Debadatta Swain	ESG Round Table Conference on Pathways to achieve ESG goals through nature based Solutions	2023-02-27	2023-02-27	Bhubaneswar	Organised jointly by Dr. reddy's Foundation, RestorEarth Solutions, ICRISAT and WRI
35	Dr. Debadatta Swain	NIMER Authors' Conference	2023-02-26	2023-02-26	KITS, Bhubaneswar	Conference organised by National Institute of Mathematics Education & Research
36	Dr. Debadatta Swain	Space Based information support for Climate & Environment Studies: Road to the Future	2022-07-18	2022-07-19	Antariksh Bhawan, DoS/ISRO, New Delhi	Invited Member

S.	Name	Name Title Dates		tes	Disco	Remarks
Ν.	Name	litie	From	То	Place	Remarks
Sch	ool of Infrastruct	ure				
37	Dr. Meenu Ramadas	International Conference on Systems, Energy and Environment (ICSEE 2022)	2022-08-05	2022-08-06	GCE Kannur (online mode)	Chair of Technical Session 03
38	Dr. Meenu Ramadas	How teachers can make a difference	2023-01-06	2023-01-07	LBC, IIT Bhubaneswar	
39	Dr. Meenu Ramadas	Scientific Evidence of Teaching Effectiveness	2023-03-21	2023-03-21	LBC, IIT Bhubaneswar	
40	Dr. Meenu Ramadas	IISA 2022	2022-12-28	2022-12-30	IISc Bangalore	
41	Dr. Meenu Ramadas	Orientation Training on REWARD Program	2022-04-27	2022-04-30	CoE, UAS Bangalore	
42	Dr. Meenu Ramadas	Drought Scenarios in Odisha: Adaptation & Mitigation Strategies	2023-03-23	2023-05-23	Centre for Climate Smart Agriculture, SOA University, Bhubaneswar	
43	Dr.Mohammad Masiur Rahaman	Julia implementation of a phase-field model for studying the effect of interlocking angle on the mechanical behavior of geometrically interlocked composites	2022-12-09	2022-12-11	ICCMS, IIT Indore	Also chair few sessions
44	Dr.Mohammad Masiur Rahaman	A diffused material interface based analytical method for elastic analysis of composites with in-plane inhomogeneity	2022-12-09	2022-12-11	ICCMS, IIT Indore	Presented by my PhD student Ayyappan
45	Dr.Mohammad Masiur Rahaman	A thermodynamically consistent phase-field model for electro- mechanical fracture	2022-12-09	2022-12-11	ICCMS, IIT Indore	Presented by my PhD student Akash
46	Dr. Goutam Mondal	1st International Conference on Mechanics of Solids	2022-11-03	2022-11-04	Porto, Portugal	Online
47	Dr. Goutam Mondal	The 8th World Conference on Structural Control and Monitoring (8WCSCM)	2022-06-05	2022-06-08	Orlando. Florida, USA	Online
48	Dr.Shantanu Patra	Indian Symposium for Offshore Geotechnics (ISOG 2022)	2022-12-04	2022-12-07	IIT Madras	
49	Dr. Rajesh Roshan Dash	13th International Symposium on Southeast Asian Water Environment (SEAWE-13)	2022-12-13	2022-12-15	Bangkok	
Sch	ool of Humanitie	s, Social Sciences & M	anagement			
50	Dr.Sreetama Misra	Challenge Based Research inEco-engineering for Socio-economic Development	2022-12-06	2022-12-06	SES, IIT BBS	
51	Dr.Sreetama Misra	Workshop (Phase 2) on "How Teachers can Make a Difference"	2023-03-21	2023-03-22	LBC, IIT BBS	
52	Dr.Sreetama Misra	Phase 2 "How Teachers can Make a Difference"	2023-01-20	2023-01-20	LBC, IIT BBS	

S.	News		Da	tes	Disc	Derrol
Ν.	Name	Title	From	То	Place	Remarks
53	Dr.Sreetama Misra	Workshop (Phase 1) on "How Teachers can Make a Difference"	2023-01-05	2023-01-07	IIT BBS	
54	Dr. Anamitra Basu	Examining Laterality Using Chimeric Pictures of 'Reading Mind in the Eyes Task': A Split-visual Field Technique	2023-03-31	2023-04-03	Tokyo, Japan	Attended Online
55	Dr.Sitakanta Panda	The 26th Annual Conference of Indian Political Economy Association. Venue: GITAM University, Visakhapatnam. Dates: 16-17 February, 2023. Paper presented: "Local political economy and prosocial behaviour: Evidence from household electricity theft in India."	2023-02-16	2023-02-17	Visakhapatnam	
56	Dr.Madhusmita Dash	b)"Assessing Conservation Effectiveness of Community versus Co- Management Approach". Paper presented at the FLARE international conference hosted by the University of Notre Dame Rome Global Gateway in Rome, Italy from October 7th - 10th, 2022.	2022-10-07	2022-10-10	Rome, Italy	
57	Dr Dukhabandhu Sahoo	International conference Innovative Trends in International Business and Sustainable Management (2022)	2022-11-17	2022-11-19	Rostov-on-Don, Russia	
58	Dr Dukhabandhu Sahoo	63rd Conference of Indian Society of Labour Economics (ISLE) (2023)	2023-03-01	2023-03-04	Rajiv Gandhi University (RGU), Arunachal Pradesh, India	
59	Dr Dukhabandhu Sahoo	2nd International Conference on Water Energy Food and Sustainability (ICoWEFS 2022) (2022)	2022-05-10	2022-05-12		
Sch	ool of Mechanica	al Sciences				
60	Dr. Anirban Bhattacharya	How teachers can make a difference	2023-01-05	2023-01-07	IIT Bhubaneswar	
61	Dr. Anirban Bhattacharya	Scientific Evidence of Teaching Effectiveness	2023-03-22	2023-03-22	IIT Bhubaneswar	
62	Dr. Suvradip Mullick	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2022), 08-10 Dec. 2022	2022-12-08	2022-12-09	IIT Kanpur	Presented paper as Invited Talk
63	Dr. Gaurav Bartarya	12th Intl. Conf. on Precision, Meso, Micro and Nano Engineering (COPEN12),	2022-12-08	2022-12-10	IIT Kanpur	

S.	Name	Title	Da	tes	Place	Remarks		
Ν.	Name	Title	From	То	Place	Remarks		
Sch	School of Minerals, Metallurgical and Materials Engineering							
64	Dr. Partha Sarathi De	National Workshop On Physical Simulation Of Thermal-Mechanical Processing Of Materials	2023-03-16	2023-03-18	Bhubaneswar	On Gleeble Systems		
65	Dr. Kodanda Ram Mangipudi	Perspectives in Materials Research	2022-12-21	2022-12-23	IISc Bangalore			
66	Dr. Kodanda Ram Mangipudi	International Conference on Additive Manufacturing and Allied Technologies (ICAMAT-2022)	2022-06-10	2022-06-11	Tirichy			
67	Dr. Srikant Gollapudi	IIMNMD	2022-11-15	2022-11-16	Hyderabad	Invited talk		
68	Dr. Srikant Gollapudi	ICPCM	2022-12-10	2022-12-11	Rourkela	Invited talk		
69	Dr. Srikant Gollapudi	Materials 75, IISc	2022-12-22	2022-12-23	Bengaluru	Invited talk		
70	Dr. Srikant Gollapudi	ASASTM	2023-01-10	2023-01-14	Singapore	Delivered a talk		
71	Dr. Rama Krushna Sabat	Nano SPD international conference	2023-02-26	2023-03-03	IISc Bangalore			
72	Dr. Rama Krushna Sabat	Platinum Jubilee Conference on " Perspectives in Materials Research"	2022-12-21	2022-12-23	IISc Bangalore			

Seminars / Conferences / Workshops/ Symposiums Organized

S.N.	Title	Dates		ites	Place	Remarks
5.N.	IItie	Organized	From	То	Place	Remarks
Scho	ol of Basic Sciences	5				
1	Selective Hydrogenation of Terminal Alkynes and Approaches Towards Reversible Hydrogen Storage	Seminar	2022-05- 02	2022-05-02	SBS	As a part of PhD Viva voce visit
2	Molecular Vessels for Catalysis, Chiral Recognition, and Separation of Isomers	Seminar	2022-12-21	2022-12-21	SBS	As a part of PhD Viva voce visit
3	High-End Workshop (SERB Karyashala) on "Scattering Methods (Electron, X-ray and Ion) for Materials Characterization	Workshop	2022-06-13	2022-06-20	SBS, IITBBS	Co-convenor
4	Belle Analysis Workshop	Workshop	2022-12-17	2022-12-18	IISER Mohali	Organizing Committee Member
5	DAE-BRNS HEP Symposium	Symposium	2022-12-12	2022-12-16	IISER Mohali	Local Organizing Committee Member

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			Da	ites		
S.N.	Title	Organized	From	То	Place	Remarks
6	Organo- and Electrocatalysis for Sustainable Synthesis	Workshop	2022-12-22	2022-12-23	IIT Bhubaneswar	Attended by around 250 participants
7	JulyPhy meeting: Out of Equilibrium Physics	Workshop	2022-07-03	2022-07-08	IIT Mandi	This workshop is partially supported by the AEI- Potsdam and IIT-K Max Planck Partner Group Grant and IIT-Mandi. The meeting was attended by experts on the fields of high energy physics and condensed matter physics. The participants were faculties of IITs, IISc, TIFR, ICTS and other universities. The co- organizers are Dr. D. Das (IIT-K), Dr. D. Chowdhury (IIT-K), Dr. D. Sarkar (IIT-I), Dr. N. Kundu (IIT-K), Dr. A. Kundu (SINP) and Dr. N. Kajuri (IIT-MN).
Scho	ool of Electrical Scie	nces				
8	Advancement in Power Electronics for E-mobility	Conference	2022-11-24	2022-11-26	Kochi	Special Session Co- Organizer
9	Tutorial Chair and Program Committee Member, ACM ICDCN 2023	Conference	2023-01-04	2023-01-07	IIT Kharagpur	
10	Brain-Inspired Computing, Brain Network Analysis, and Post-Quantum Security	Workshop	2022-10-31	2022-11-30	IIT Bhubaneswar	
11	Creation of Accessible Documents and Presentations	Workshop	2023-03- 03	2023-03-03	IIT Bhubaneswar	
12	Synchronous neural networks for cyber- physical systems	Seminar	2023-02-15	2023-02-15	IIT BBS	By Prof. Partha Roop, University of Auckland
13	Application of Machine Learning to Wireless Communication	Workshop	2021-01-21	2021-01-24	IIT Bhubaneswar	
14	Training Session for IEEE PELS Chapter's Office Bearers -India	Workshop	2022-11-11	2022-11-12	Hyderabad, India	First of its kind was organized and 25 office bearers have attended.
15	International Conference on Power Electronics and Energy	Conference	2023-01-03	2023-05-05	Bhubaneswar, India	Publication Chair
Scho	ool of Earth, Ocean a	and Climate	e Sciences			
16	Innovative Geospatial Application for Sustainable Development of Smart cities	Workshop	2022-08- 20	2022-08-20	IIT Bhubaneswar	Brainstorming-cum- Stakeholders' Meet with support from DST-Govt. of India (86 participants from 26 Institutions)

C NI			Dates		DI	
S.N .	Title	Organized	From	То	Place	Remarks
17	3 rd International Conference on Biodiversity and Climate Change: Sustainable Development Perspective (BDCC- 2023)	Conference	2023-02-16	2023-02-19	IIT Kharagpur	Member, Organizing Committee
18	8th International Conference on Time Series and Forecasting (ITISE 2022)	Conference	2022-06-27	2022-06-30	Gran Canaria, Spain	Programme Committee Member
Scho	ool of Infrastructure					
19	REWARD-Hydrology Training Workshop	Workshop	2023-03- 20	2023-03-21	SIF, IIT Bhubaneswar	
20	Peridynamics for domain agnostic analysis	Seminar	2023-01-17	2023-01-17	SIF, IIT Bhubaneswar	Professor from University of Arizona
21	Online Proficiency Test for NQM/SQM/PIU, 1 st , 2 nd , 3 rd , 4 th (22 nd Aug 2022) and 5 th (29 Sep 2022)	Workshop	2022-04-01	2023-03-31	IIT Bhubaneswar	Organising Tests for Quality Control Officials
Scho	ool of Humanities, S	ocial Scien	ces & Mana	gement		
22	Mapping the Impact of Social Media	Workshop	2022-12-12	2022-12-23	IITBBS	Fully funded by AICTE, New Delhi
23	Role of Tribal heros in India's struggle for Freedom	Symposium	2022-09- 03	2022-09-03	IITBBS	
Scho	ol of Minerals, Meta	allurgical a	nd Material	s Engineerii	ng	
24	A workshop on Recent Advances in Materials and Mechanics (RAMM) - 2022	Workshop	2022-11-12	2022-11-13	IIT BBS	Online

Institute Seminars

S. N.	Title of the talk	Speaker	Date
1	Lecture On "India's Foreign Policy" Under India@75: VIDESH NITI	Mr Amarendra Khatua (retired ambassador, government of India)	14.10.2022
2	Awareness Seminar organized by Internal Complaints Committee	Ms. Snehanjali Mohanty, Advocate and Former Member of Odisha State Commission for Women	25.11.2022
3	Science, Creativity and God	Dr. Jayanarayan Tudu, Assistant Professor, IIT Tirupati	11.12.2022
4	The Science of Happiness	Dr. Ramjee Repaka, Associate Professor, IIT Ropar	14.12.2022
5	What is life really? Exploring the mystery of life and its origin from Physics, Mathematics, Biology and ancient Indian Wisdom.	Sri Vasudeva Rao, (Computer Science Engg.,IIT Kanpur) President,Bhaktivedanta Institute Sri Varun Agarwal (Aerospace Engg., IIT Kanpur) Director, Bhaktivedanta Institute	08.01.2023

S. N.	Title of the talk	Speaker	Date
6	The Digital Disconnect	Mr. Siddhartha Tiwari (Assistant Professor, IGIT, Odisha)	22.01.2023
7	Webinar on "Nation Building, Junoon and Happiness"	Dr. Anil K. Rajvanshi (Padma Shri)	31.01.2023
8	Mystery of consciousness: Perspective from Physics, Neuroscience and Ancient Indian Wisdom	Sri Varun Agarwal, (Aerospace Engg., IIT Kanpur) Director, Bhaktivedanta Institute	19.03.2023

Faculty Awards/ Honours/ Distinction/Fellowships/Industry Internships/ Scholarships/ Memberships

S.N.	Faculty Name	Details of the Awards/Honours/Fellowship	Remarks
Sch	ool of Basic Science	S	
1	Dr. Chandrasekhar Bhamidipati	Award for Excellence in Teaching 2023	
2	Dr. Ashis Biswas	Member of the Board of Studies, Dept. of Biotechnology, Haldia Institute of Technology, Haldia, West Bengal	
3	Dr. Sasmita Barik	Outstanding Woman Researcher in Mathematics, 8 th Venus International Women Awards (VIWA-2023)	
4	Dr. Sasmita Barik	Academic Secretary of the "Academy of Discrete Mathematics and Applications (ADMA)" for a period of 2 years starting from Apr 1, 2022	
5	Dr. Sasmita Barik	Chebyshev Grant, International Congress of Mathematicians (ICM)2022	
6	Dr. Vasudeva Rao Allu	Teaching Excellence Award 2023	
7	Dr. Vasudeva Rao Allu	Srinivasa Ramanujan Memorial Award (2022) by Ramanujan Mathematics Academy, Ramachandrapuram, Andhra Pradesh	
8	Dr. Akash Ashirbad Panda	DST-INSPIRE Faculty Fellowship	
9	Dr. Rajan Jha	Associate Editor of IEEE Sensors Journal	
Sch	ool of Electrical Scie	ences	
10	Dr. Navjeet Bagga	BEST Paper Award	ICEE Conference held in January 2023
11	Dr. Subhransu Ranjan Samantaray	Fellow, Indian National academy of Engineering (INAE)	
12	Dr. Subhransu Ranjan Samantaray	OPTCL Chair Professor	
13	Dr. Subhransu Ranjan Samantaray	SERB Science & Technology Award for Research (SERB-STAR) Award	
14	Dr. Srinivas Pinisetty	Excellence in Teaching (CSE), IIT Bhubaneswar, February 2023	
15	Dr. Vijay Shankar Pasupureddi	Senior Member IEEE	
16	Dr. Srinivas Bhaskar Karanki	Teaching Excellence Award 2023	
17	Dr. Chandrasekhar Perumalla	Transnational Access Researcher″ under the H2O2O program of the European Union to work at National Smart Grid Laboratory, Norway	
18	Dr. Sudipta Saha	Best Paper Award in IEEE CCNC 2022	

S.N.	Faculty Name	Details of the Awards/Honours/Fellowship	Remarks
19	Dr. Sudipta Saha	Best Paper Award in IEEE COMSNETS 2022	
20	Dr. Nijwm Wary	Award for Excellence in Teaching 2023	
21	Dr. Siddhartha Suruj Borkotoky	Award for Excellence in Teaching 2023	
Sch	ool of Earth, Ocean	and Climate Sciences	
22	Dr. Nirupam Karmakar	Indian National Science Academy (INSA) Young Scientist Medal (2022)	Conferred on May 9th, 2023.
23	Dr. Nirupam Karmakar	Assiciateship of the Indian Academy of Sciences (IASc) Bangalore from 2022-2025	Awarded in November 2022.
24	Dr. Syed Hilal Farooq	Awarded DAAD Fellowship by German Academic Exchange Program	Two-month collaborative work stay at KIT - Karlsruhe, Germany.
25	Dr. Syed Hilal Farooq	Member of Selection Penal for Quad Fellowship - USA	
Sch	ool of Infrastructure	•	
26	Dr. Anush K. Chandrappa	Best Paper award under "Best poser category" for the paper The Investigation of Viscoelastic and Rheological Properties of Rejuvenated Asphalt Binder with Waste Cooking Oil. The article was authored by Shobhit Jain, Praveen Shakyawar, Shivam Singh, Dr Anush K Chandrappa and presented by Shivam Singh and Praveen S at 14th edition of international conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC) at IIT Bombay	
27	Dr. Anush K. Chandrappa	Aditya Aggarwal and Rahul Agrawal Secured first place in pervious concrete design in Aakaar 2023 Civil Engineering Fest of IIT Bombay. I mentored the team and assisted them in design.	
28	Dr. Remya Neelancherry	International Research Excellence Best Paper Awards 2022	
29	Dr. Remya Neelancherry	Editorial Board Membership of Environmental Nanotechnology Monitoring and Management journal (Elsevier)	
30	Dr. Jothi Saravanan Thiyagarajan	Monbukagakusho: MEXT Research Scholarship, Govt. of Japan - Selection Panelists Committee Member, Embassy of Japan, New Delhi	
31	Dr. Meenu Ramadas	Institute Teaching Excellence Award 2023	
32	Dr. Manaswini Behera	Best paper award for poster presentation at International Conference on Bioprocess for Sustainable Environment and Energy (ICBSEE 2022), NIT Rourkela, Odisha, India.	
33	Dr. Suresh Ranjan Dash	Young Alumni Achiever Award 2022 in the category "Academic/Research Quest" on Diamond Jubilee Celebration of NIT Rourkela, Dec 2022	
34	Dr. Debasis Basu	The Best Paper under the theme "Sustainable Transportation" at 2nd International Conference on Transportation Infrastructure Projects: Conception to Execution held between 14 th Sep-22 nd Sep, 2022 at IIT Roorkee	Sharma, S., Rastogi, R., and Basu, D., 2022. Evaluation of Active Transport Systems: A Glance at Recent Studies
Sch	ool of Humanities, S	ocial Sciences & Management	
35	Dr. Rajakumar Guduru	Teaching Excellence Award, Academic Year 2023	
36	Dr. Madhusmita Dash	Resource person and Discussant of a session on "Biodiversity and Ecosystem Restoration" during the workshop conducted by the Tata Steel Foundation (TSF) on Climate Resilient Agriculture during 20th- 21 st February 2023.	

S.N.	Faculty Name	Details of the Awards/Honours/Fellowship	Remarks
Sch	ool of Mechanical S	ciences	
37	Dr. Chetan	Certificate of Excellence in Teaching (2023)	
38	Dr. Venugopal Arumuru	SERB International Research Experience (SIRE) fellowship.	
Sch	ool of Minerals, Met		
39	Dr. Srikant Gollapudi	Excellence in teaching awarded by IIT Bhubaneswar	
40	Prof. Brahma Deo	Life Fellow Award 2022 was given by IIT Kharagpur	On December 24, 2022
41	Prof. Brahma Deo	Appointed (since Nov. 2022) by Ministry of Steel, GOI, as one of Directors (in the Board of Directors) of Biju Patnaik National Steel Institute (BPNSI), Jajpur, Odisha; He has also been made the Chairman of Academic Council of BPNSI	
42	Prof. Brahma Deo	The External Senate Member of IIT Guwahati. IIT BBS and IIT Guwahati have agree to co-share, in principle, teaching of the common and mutually interested "Open electives" between the two Institutes. The first attempt of its kind under the NEP, is will encourage the sharing of resources and knowledge.	
43	Prof. Brij K. Dhindaw	Life Time Achievement Award 2022 was given by IIT Kharagpur	On December 24, 2022

Awards/ Honours for Officer/Staff Members

S.N .	Staff Name	Details of the Awards/ Honours/ Fellowship	Remarks
1	Dr. Bibhuti Bhusan Sahoo, Deputy Librarian		
2	Girish Kumar Pitta	Director's Commendation for Meritorious	On the occasion of the 15 th Foundation Day of the Institute
3	Jignyasha Behera	Services	
4	Akasmika Sarangi		buy of the institute
5	Ratikanta Mishra		

Awards and Achievements of Students

Praveen Kaushal, 4th year SMMME student received the best paper award (co-authored with Professor Brahma Deo et al. at IIT BBS, and other authors from TATA Steel Long Products Limited, Joda) at 6th International Conference on Advances in Materials and Manufacturing Technology-2022 in the track 'Industrial design and Engineering".

Distinguished Visitors (Online/ In-person)

S.N.	Date	Name of the Event	Distinguished Visitor	Designation and Name of the University
1	27.01.2023 to 28.01.2023	3rd National Workshop on Recent Developments in Smart-Grid Technologies	Prof. B. K. Panigrahi	IIT Delhi
2			Prof. A. K. Tripathy	KIIT Bhubaneswar
3			Prof. A. K. Pradhan	IIT Kharagpur
4			Prof. Sukumar Mishra	IIT Delhi
5			Prof. Ranjan Kumar Behera	IIT Patna
6			Mr. Bhadresh B Mehta	SSI Vadodara
7			Dr. Ashis Hota	IIT Kharagpur
8	11.08.2022 to 12.08.2022	Workshop on Electric Vehicle Technologies	Prof. Sukumar Mishra	IIT Delhi
9			Prof. Santanu Mishra	IIT Delhi
10			Prof. Rajiv Kumar Singh	IIT Varanasi
11			Dr. Arun Sankar Uma Sankar	Mercedes-Benz, USA
12			Shri Arun Kumar Mishra	EESL, New Delhi

S.N.	Date	Name of the Event	Distinguished Visitor	Designation and Name of the University
13		ATAL – FDP on Mapping the Impact of Social Media	Prof. Jyotirmaya Tripathy	IIT Madras
14			Prof. Madhusmita Pati	RD Women's University
15			Dr. Nisigandha Bhuyan	IIM Calcutta
16			Dr. Vineet Sahu	IIT Kanpur
17	12.12.2022 to		Dr. Amarjeet Nayak	NISER, Bhubaneswar
18	23.12.2022		Prof. Asim Ranjan Parhi	Utkal University
19			Dr. M. P. Mishra	OURT, Bhubaneswar
20			Shri Ramakrushna patnaik	Insitute of Health Sciences, Bhubaneswar
21			Ms. Lipsa Hembram	NIFT, Bhubaneswar
22			Prof. Vinayak M. Sholapurkar	S. P. College, Pune
23			Dr. Binod Kumar Sahoo	NISER, Bhubaneswar
24	20.06.2022 to	Madhava Nurture Camp 2022	Dr. Geetanjali M. Phatak	S. P. College, Pune
25	25.06.2022	Madhava Nurture Camp 2022	Dr. Subhasis Ghora	C. V. Raman Global University, Bhubaneswar
26			Prof. Vinayak M. Sholapurkar	S. P. College, Pune
27		STC on Trading in Equity	Dr. Latha Chari	National Institute of Securities Markets
28	26.05.20222 to 27.05.2022		Dr. Pradiptarathi Panda	National Institute of Securities Markets
29			Mr. Meraj Inamdar	National Institute of Securities Markets
30	03.09.2022	Workshop on Cold Mix Asphalt Technology	Dr. Vishnu R	NIT, Warangal
31			Prof. Srikala Naraian	Columbia University, New York
32			Prof. Sashmi Nayak	NISWASS, Bhubaneswar
33	27.06.2022 to	GIAN course on Teaching for	Dr. Roma Dey	NISWASS, Bhubaneswar
34	01.07.2022	Inclusion: Principles for Effective Practice	Prof. Basanta Kumar Mallik	Utkal University
35			Dr. Ramesh Mallick	Utkal University
36			Prof. Mrinal Chatterjee	IIMC, Dhenkanal
37	04.04.2022 to 09.04.2022	GIAN course on "Nanotechnology in Water and Wastewater Treatment"	Prof. Ruey An Doong	National Tsing Hua University, Taiwan
38	5.12.2022 to 06.12.2022	collaborative project work 'Saraswati 2.0	Prof. Taavo Tenno	University of Tartu, Estonia
39		An online workshop on Recent Advances in Materials and Mechanics (RAMM-2022)	Dr.Appala Naidu G.	IIT Jodhpur
40			Dr.Chandra Sekhar Tiwari	IIT Kharagpur
41			Dr.Debalay Chakrabarti	IIT Kharagpur
42			Dr.Eswar Prasad Korimilli	IIT Indore
43			Dr.Kallol Mondal	IIT Kanpur
44	12.11.2022 to		Dr.Manas Mukherjee	IIT Madras
45	13.11.2022		Dr.Rajesh Korla	IIT Hyderabad
46			Dr.Rajdip Mukherjee	IIT Kanpur
47			Dr.Ratna Kumar Annabathula	IIT Madras
48			Dr.Ravi K. R.	IIT Jodhpur
49			Dr.Sarath KumarG V	AshokLeyland,Chennai
50			Dr.Sisir Mantry	CSIR-IMMT,Bhubaneswar

Central Library

Central Library, a hub of learning resources, is one of the central facilities working with a mission to provide quality information resources in all forms to the academic and research community of IIT Bhubaneswar. The Central Library of IIT Bhubaneswar started functioning in a small room of 300 sq. ft. floor area with a mere collection of 2300 text books at IIT Kharagpur Campus in July 2009 and then moved to Toshali Bhawan, Satya Nagar in 1st April 2011 in a room with floor area of 2200 sq. ft. In 2016, the Library has extended its services to the Institute permanent campus at Argul, Khordha. The Central Library completely shifted to its permanent campus at Argul, Khordha in the year 2018. With a commitment to excel, the library plays a vital role starting from acquiring to disseminating all types of information resources by timely and innovative services to support the academic and research need of the user community. The range and quality of services offered by the Central Library are comparable to any modern libraries in India of International standards.

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In a nutshell, the library is currently having over **23500+** volumes of books, 50+ databases (full-text, bibliographic, etc.) and other resources like popular print magazines and newspapers, theses and dissertations, and reports in Engineering, Science & Technology, Management, Humanities and Social Sciences. Apart from the procurement of print books, the library achieved phenomenal progress in the subscription of e-resources which includes more than 9700+ e-journals, 36000+ e-conferences, 17000+ e-standards to its digital collection making "24 x 7 Library" in a real sense on the institute-wide network and off-campus access to e-resources through MapMyAccess.

Library Collection at a Glance

The Central Library has a rich collection of print as well as electronic resources that supports the academic and research needs of IIT Bhubaneswar fraternity. The collection includes books, journals, databases, software tools, theses and dissertations, magazines and newspapers, etc. The library provides supports to more than 2900+ users, which includes students, research scholars, faculty members, staff, etc.







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The total collection of the library as on 31st March 2023 stands as follows:

Collection (Print & Electronic)	Quantity	Collection (Print & Electronic)	Quantity
Books	23500+	Full-Text Databases	41
E-Books (Through NDLI)	60 million+	Bibliographic Databases	04
E-Journals	9700+	Standalone Databases	01
E-Conferences	36000+	Statistical Databases	01
E-Standards	17000+	Crystallographic Databases	01
Print Journals and Magazines	38	Plagiarism Detection Tools	02
Daily Newspapers	10	Reference Management Tools	01
Institute PhD Theses	218+	Writing Assistance Tools	01
ProQuest Dissertations & Theses	6.8 lakh+	Remote Access Tools	01

Library Services & Facilities

The services rendered by the central library are as follows:

- Library Membership and Borrowing Facilities
- Circulation Service (Issue, Return, Renewal, Reservation, E-mail Alerts)
- WebOPAC (Web version of Online Public Access Catalogue)
- Reference Service
- Current Awareness Service (Newly Arrived Books/ Theses)
- Document Delivery Service
- Research Support Service
- Remote Access Service
- Alert Service (Latest Research Publication of IITBBS through Library Website)
- Plagiarism Check Facility
- Writing Assistance Tool

- Orientation Programmes
- Fully Airconditioned Reading Room Facility
- Wi-Fi (Wireless Fidelity) Facility
- Hindi Collection (Rajbhasa Collection)
- Non-Book Materials
- Course Reserve Collection in Reading Area
- Special Collection for Scheduled Castes & Scheduled Tribes
- Display of Scholarship and Fellowship Information
- Author Workshops for the Research Scholars and Faculty
- Display of forthcoming conferences, other events, employment opportunities, and prospectus of foreign universities
- Short term internship for different University Master's students (MLIS)

Print and Electronic Resources

The Central Library is having a rich collection of print resources such as books, theses, magazines and newspapers. The bibliographical information of these resources are accessible through the Library Catalogue or WebOPAC. The institute is also having a rich collection of electronic resources and is getting access to 50+ electronic databases through library subscription and e-SodhSindhu consortium. Electronic databases include full-text databases (e-journals), bibliographic databases, citation databases (Scopus and Web of Science), Statistical databases, data sets, software tools, e-books etc. These resources are being subscribed and renewed annually in collaboration with eSS (e-ShodhSindhu: A nationwide initiative by the Ministry of Education for Higher Education e-Resources).

The e-resources subscribed by the Central Library are as follows:

Full-Text Database

- AAAS (Science)
- ACM Digital Library
- American Chemical Society (ACS)
- American Institute of Physics (AIP)
- American Mathematical Society (AMS)
- American Meteorological Society (AMS)
- American Physical Society (APS)
- American Society of Civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- Annual Reviews
- ASTM Standards & Digital Library
- Cambridge Journals (4 Titles)
- ECS Digital Library
- Economic & Political Weekly
- Emerald Engineering Collection
- GeoScience World
- ICE Current Engineering Journals
- IEEE IEL Online
- IOP Science
- ISID Database
- J-Gate Plus (JCCC)
- JSTOR
- Nature (12 Titles)
- Optical Society of America (OSA)
- Oxford University Press
- Project Muse
- ProQuest Dissertations & Theses (PQDT)
- Royal Society of Chemistry (RSC)
- Science Direct 8 Subject Collection
- SIAM Online
- South Asia Archive
- Springer Journals
- SAGE Journals (01 Title)

Full-Text Database

- SAGE Engineering & Materials Science Collection
- Taylor & Francis Journals
- Wiley Online Library (61 Titles)
- World Scientific (01 Title)

Bibliographic Database

- SciFinder Scholar
- MathSciNet
- Scopus
- Web of Science

E-Book Database

- World eBook Library
- Wiley E-Books (01 Title)

Standalone Database

Cambridge Structural Database System (Researcher License)

Statistical Database

• EPWRF India Time Series

Crystallographic Database

• Pearson's Crystal Database

Research Support Software Tool

- Turnitin
- Ouriginal
- EndNote
- Grammarly
- MapMyAccess

Computing Infrastructure and Services

The Library has its own LAN and WiFi network, which is connected to the Campus LAN. Currently, it has more than 5 PCs dedicated for the user to access electronic resources (e-journals, e-databases, etc), and a Rack Server that hosts Koha ILS, DSpace digital repository, and a dedicated PC for RFID middleware application. The computing or IT infrastructure of the Central Library is given below.

S. No.	Name of the Library IT Infrastructure	Software/Platform
1.	Library Automation	Koha ILS Software
2.	Institutional Digital Repository (IDR)	DSpace Digital Library Software
3.	Library Website	Inhouse developed CMS
4.	RFID based Circulation & Theft Detection	RFID Middleware & MS SQL
5.	Relational Database Management System	MySQL, MariaDB, PostgreSQL
6.	Remote Access	MapMyAccess (in Cloud Platform)
7.	Research Information Management (RIM)	IRINS (in Cloud Platform)

Library Website

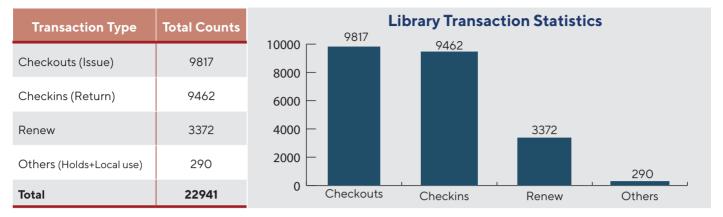
The Central Library has a comprehensive Home Page as a part of the Institute's website. The Library Home page serves as an integrated interface for all resources and services available from the Central Library. The library website is regularly updated by the library team. It is available at **https://library.iitbbs.ac.in/** and offers the following web-based services:

- Newly Arrived Books displayed at Home Page (Physically Displayed at the Library)
- Latest Faculty Research Publications displayed at Home Page indexed by Scopus
- Subscribed Electronic Resources (https://library.iitbbs.ac.in/online-e-resources.php)
- · Access to A-Z List of Journals Subscribed by IIT Bhubaneswar
- · Access to the Database of Theses Submitted by the Scholars of IIT Bhubaneswar
- Library Catalogue or WebOPAC Search Interface on Home page
- · Web Access to List of Print Magazines Subscribed by IIT Bhubaneswar
- Remote Access to all e-Resources through MapMyAccess (https://iitbbs.mapmyaccess.com/)
- Access to Institutional Digital Repository (http://idr.iitbbs.ac.in/jspui/)
- Access to Research Information Management Service IRINS (http://iitbbs.irins.org/)

Library Automation

Central Library has been automated all its housekeeping operations using an open-source integrated library management system software **"Koha"**. The software is being maintained regularly and upgraded yearly to the latest stable version by the library team without any third-party support. It supports a web version of the online public access catalogue (WebOPAC) through which a user can search books, check issued books, renew and reserve books. Further, it automatically sends all transaction alerts to users including overdue notices and book due reminders. The WebOPAC or Library Catalogue is available at: http://koha.iitbbs.ac.in. The transaction statistics of the library from 1st April 2022 to 31st March 2023) is given below (**Source:** Koha).

Library Transaction Statistics (From 1st April 2022 to 31st March 2023)



Institutional Digital Repository (IDR)

Central Library has also developed an Institutional Digital Repository (IDR) using an open-source digital library software "DSpace" in accordance with the National Digital Library (NDL), IIT Kharagpur mandate. Currently, it archived faculty research publications (metadata only) and annual reports of IIT Bhubaneswar. The repository is being maintained regularly and upgraded to the latest stable version by the library team without any third-party support. The IDR is available at: http://idr.iitbbs.ac.in/jspui





MapMyAccess: A Cloud-based Remote Access Tool

Central Library has implemented a cloud-based remote access tool "MapMyAccess" for off-campus access of subscribed e-resources of IIT Bhubaneswar. MAPMyAccess is a Remote Access Solution that is specifically designed to facilitate off-campus and anytimeanywhere access to digital content of the subscribed e-resources of IIT Bhubaneswar. Users have the privilege of accessing library content from any device in a seamless manner by leveraging secured cloud hosting services. The MapMyAccess is available at: https://iitbbs.mapmyaccess.com/

IRINS: A Web-based Research Information Management (RIM) System

IRINS (Indian Research Information Network System), a web-based Research Information Management (RIM) system developed by the Information and Library Network (INFLIBNET) Centre, has been set up for the IIT Bhubaneswar by the Central Library initiative. It facilitates IIT Bhubaneswar research fraternity to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network.

IRINS has been integrated with academic identity such as ORCID ID, ScopusID, Researcher ID, Microsoft Academic ID and Google Scholar ID for ingesting the scholarly publication from various sources. The IRINS instance of IIT Bhubaneswar is currently showing 133 faculty members, 4239 publications, 8 patents, and 69322 citations. It is available at: https://iitbbs. irins.org.



Institutional Ranking Activities

Central Library has been co-ordinating all the ranking related activities of IIT Bhubaneswar. The role of Library is to collect the data from different schools/departments/centres/sections as per the requirement of different national/international ranking systems/agencies and compile the same for the purpose and submit those data online with due approval of the competent authority. The Institute participated in the following national and international rankings:



Out-reach Programmes of the Central Library

Book Exhibition on the occasion of Hindi Pakhwada, Gandhi Jayanti and National Unity Day, Librarian's Day Observation

Central Library organized book exhibitions on various auspicious occasions like Hindi Pakhwada, Gandhi Jayanti, National Unity Day (Birth anniversary of Sardar Vallabhbhai Patel), etc. Students and faculty members visited the exhibition on the respective occasions. On the occasion of Hindi Pakhwada, the library displayed all the rajabhasa books to its users for two weeks. Similarly, on the occasion of Gandhi Jayanti and National Unity Day, the library displayed books on respective leaders for two weeks.



2nd Techno Book Exhibition 2023

Central Library, IIT Bhubaneswar organized a three-day long 2nd Edition of Techno Book Exhibition on the 5th floor, Administrative Building from 2nd March 2023 to 4th March 2023. The exhibition was inaugurated by Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar and Mrs. Shruti Karmalkar on 2nd March 2023. The exhibition was opened on all three days from 9:00 AM to 6:00 PM. In the inaugural event, the members from the IIT Bhubaneswar fraternity including students, faculty and staff, NISER Library staff, vendors and publishers were present.

In the book exhibition, 16 vendors and publishers of national and international repute participated. The exhibition has 16 book stalls having more than 50 thousand books. The books mostly focused on Science & Technology, Engineering, Social Sciences and Management, Soft skills, etc. In addition, there are many books on literature, children's education and entertainment, storybooks, etc.

The exhibition is aimed to promote the culture of reading habits of students and instil a love for reading that lasts a lifetime and provide opportunities for students, faculty, staff and other IIT Bhubaneswar community members including children and also institutions around IIT Bhubaneswar, such as NISER, IoP, CUTM, C. V. Raman Global University, ITER, GITA, etc. to choose from a wide variety of books and buy from a single point. This exhibition also facilitates vendors and publishers to showcase new and classic book collections to inculcate the reading habit. This provides an opportunity for faculty members to recommend books related to the curriculum and new research areas to participate in the movement of the Library collection building process. The exhibition has been a great success with a wide range of books on Indian Institute of Technology Bhubaneswar



display from different genres, including textbooks, reference books, fiction, non-fiction, biography, children's books, and much more.

The closing ceremony of the exhibition was held on 4th March 2023 in the presence of all 16 participating vendors and publishers, faculty members, Library Advisory Committee members, Library staff, students and their family members. It was started with a welcome address given by Dr. Bibhuti Bhusan Sahoo, Deputy Librarian, Central Library, IIT Bhubaneswar, followed by a brief introduction of the book exhibition and its objectives. Prof. Rajesh R. Dash, Chairman, Central Library thanked all the vendors and publishers for their active participation in the 2nd Techno Book Exhibition. The member of LAC, Dr. Naresh Chandra. Sahu and Dr. Sashidhar Kondaraju, addressed the gathering and shared their observations about the collection of books and emphasized the importance of inclusion of textbooks and reference books related to the core subject areas including popular books and humanities, social science & management for the next book exhibitions. Dr. Sahu further added that the usage of popular reading books by the B. Tech students is rising significantly after the introduction of the popular reading section in the Central Library. Vendors and publishers also shared their feedback on the book exhibition with a lot of satisfaction. Dr. Sambhunath Sahoo, Assistant Librarian of the Central Library proposed the vote of thanks. IIT Bhubaneswar community appreciated the successful organization of the 2nd Techno Exhibition – 2023.

Wiley Author Workshop

Central Library, IIT Bhubaneswar in collaboration with Wiley organized two author workshops, first on 21st June 2022 in online mode and second on 1st September 2022 in offline mode at the Central Library, 4th floor, Administrative Building, IIT Bhubaneswar, Argul, Khordha. There were more than 100 participants including faculty members, students, research scholars and staff attended in each mode of the workshop. The key resource person for both the workshop was Yateendra Joshi, who is among only 30 editors worldwide – and the only one in India – recognized as master editors by BELS, the Board of Editors in the Life Sciences, USA. He had elaborated how to write a paper, the structure of a paper, peer-review process involved in a journal, ethics in publishing a paper in a journal, etc.



The participants had gain insight into the types of academic publications available, the processes involved in getting their work published, and the expectations that editors have from authors and their work. The participants also gain an in-depth knowledge of how to pitch and position their papers and identify niche publications best suited to meet their needs.





Computer and Information Technology Services Cell (CITSC)



The Computer and Information Technology Services Cell (CITSC) of IIT Bhubaneswar has state-of-the-art servers, connected on a high-speed Gigabit Optical Fiber /UTP based network in a distributed environment. Our team provides technical support for conducting online conferences, seminars and meetings and for live streaming different events. Laboratories, faculty and staff offices are provided with 24x7 telephone as well as with wired/ wireless internet/intranet connectivity. All the members of IIT Bhubaneswar campus including students, faculty, staff and officers are provided with e-mail ID, a user-friendly e-mail system to access mails both from inside and outside of the campus. Our team implemented state-of-the-art next-generation UTM solution related to campus network protection. All the hostels are provided with 24x7 internet/ intranet connectivity.

The Institute is connected with high-speed Gigabit Connectivity under NKN. Besides this, the Institute is also having PGCIL ILL. The Institute is having its own telephone exchange which can cater up to 10,000 users and provides PRI line facilities. The Institute is also having several hot-spot Wi-Fi points which is being used by the IIT Bhubaneswar users for wireless connectivity as well as an E-class room that allows users to access different academic video content. CITSC also provides video conferencing facilities to the Institute users utilising desktop video conferencing as well based on hardware video conferencing. CITSC is having state-of-the-art storage area network and utilising virtualization solution. ERP application is being used for students grading, feedback, academics and admissions as well as for placement related activities. ICT needs of the Institute is being planned and executed by the in-house team of IIT Bhubaneswar. CITSC team provides round the year network and hardware supports to all the members of the Institute. CITSC implemented solution for conducting online classes and implemented solution to hold conventional examination Online with invigilation in virtual examination halls. Audio-Visual facilities of classrooms are implemented and maintained by the in-house team of CITSC. Our team encourages use of free and open source software among the campus inmates. Our team also provides supports to several advanced and special purpose software such as Ansys, Matlab, Mathematica, etc.



Career Development Cell (CDC)

The Career Development Cell (CDC) offers a wide range of portfolios which include empowering students to explore, define, and realize their career goals. The CDC also engages in one-on-one counselling sessions, consultations throughout the career planning process, and assistance with goal-setting and goal achievement through a variety of career exploration activities. The ultimate aim is to provide lifetime tools and skills for professional development, job search success, and career satisfaction, supporting the students in shaping and managing their careers by building key ingredients required for a student to be a complete professional.

Campus Placements 2022-23 has been challenging for us due to the market dynamics across the globe.

Key highlights of campus placements 2023

- Total 385 students from UG (B.Tech+DD) received a total of 298 offers out of 365 participating students
- Undergraduate placement is 82+% and placements would continue till end of July 2023.
- The highest domestic CTC offered was 55.75 Lakhs per annum, the highest ever received till date in IIT BBS.
- More than 15% of students received offers with a CTC greater than 30LPA, while around 35% of students received offers with a CTC greater than 15LPA.
- M.Tech placements have reached 85% now.
 Placement process will continue till end of July 2023.
 A good line-up of companies are still expected to hire from M.Tech branches.

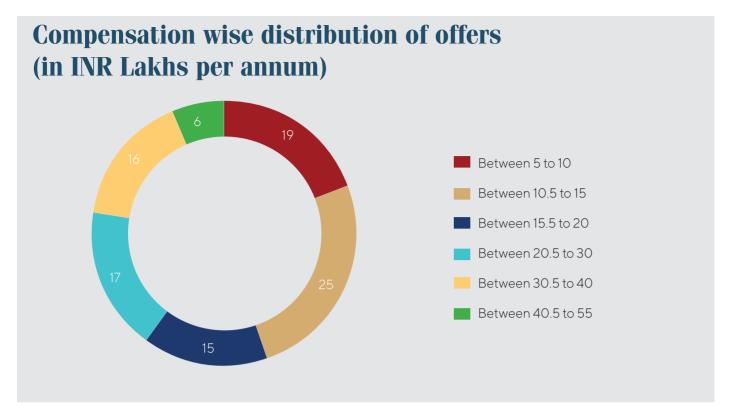
- PSUs such as BEL, C-DOT, C-DAC, GAIL & NTPC (Offcampus), etc. participated in the campus placements.
- MNC companies like Google, Microsoft, Amazon, Goldman Sachs, Flipkart, D.E. Shaw, Oracle, Ceremorphic, Media.Net, NIUM, JLR, Analog device, Zomato, Mathworks, Caterpillar, TATA Steel R & T, AIRA Matrix, ARM, Maruti Suzuki, Applier Materials, L & T, JSW, Vedanta, Virohan and Tata Steel have participated in this year of placements.
- Pre-final year B.Tech students have received internship offers in reputed industries. Majority of CSE branch engaged in Internships has the possibility of a full-time offer.



Companies				
Goldman Sachs	DE Shaw&Co	- Microsoft	amazon	E
📣 MathWorks	Adobe	Deloitte.	SAMSUNG	(mastercard
Flipkart 🙀	ORACLE	AMERICAN EXPRESS	💿 NVIDIA.	media _net
LARSEN & TOUBRO It's all about Imagineering	TATA TATA CONSULTANCY SERVICES	JSLM	oppo	MAQ Software
TATA STEEL	UnitedHealth Group	Qualcomm	TRAI Téccam Regulatory Authority of India	amagı
वाप्कोस WAPCOS		Rupeek	GAIL	∲ DRERM11
Fractal Intelligence For IMAGINATION	OBSERVE	Razorpay	JAGUAR	🕢 toppr
Vedantii LIVE ONLINE TUTORING	XDBS			

Course/stream wise distribution of placements

	CSE	ECE	EE	Mechanical	Civil	MME	IDD CSE	IDD Civil	IDD Mech	IDD Meta	IDD EE	Total
Participated	61	46	61	55	35	22	10	28	31	06	10	365
Placed	59	40	52	47	34	13	10	15	23	06	09	298
Percentage Placed	97%	87%	85%	85%	69%	59%	100%	54%	74%	100%	90%	82%
Highest CTC	55.75	44.62	44.62	21.28	38.70	23	40	23	21.28	30	37.62	55.75
Lowest CTC	9	9.65	6.50	8	6.50	9.50	14	8	8.25	9.6	7	6.50
Average CTC	25.18	22.85	19.05	12.57	12.85	13.41	24.76	13.12	14.23	16	18.44	18
Median CTC	20.31	18	15	12	10.57	12.50	22.14	10	12	15.28	19.92	16



*** Placement process has not been over yet and will continue till July 2023.



List of all the companies visiting IIT Bhubaneswar Campus for Full time hiring in Academic Year 2022-23

Aarna	C-DOT	GE Healthcare	Mahindra & Mahindra	ORAME	
Accenture	Ceremorphic	Goldman Sachs	MAQ Software	Paytm	
Accenture Japan	Cogoport	Harman	Maruti Suzuki	Publicis Sapient	
Accenture operation	Cubastion Consulting	HDFC Bank	Mathworks	Radysics	
Achnet	D.E.Shaw	Hexaware Technologies	Media.Net	Sapiens	
AIRA Matrix	Deloitte	ICICI	Merilytics	ServiceNow	
Amazon	Delta Electronics	Incture	Microsoft	Svaya Robotics	
Analog Device	Dolat Capital	intuit	Google	TATA 1mg	
Applied Materials	Edfora Infotech	Ittiam systems Ltd	Nations with Namo	TATA Capital	
ARM	EXL Services	Jaguar LandRover	Newzera	Tata Steel	
BEL (PSU)	Fitjee	JSW	Nference	TATA Steel (Non Core)	
Brane	Flipkart	Junglee Games	NIUM	TATA Steel R & T	
Brane Enterprises	Fractal analytics	KPMG Nvidia		TCS	
Brigosha	Future First	L&T	Optum UHG	Tech Mahindra	
Caterpillar	GAIL (PSU)	Lumiq.ai Oracle		Tradence	
Uber	TVS Motors	Truminds TRL Krosakhi Trilogy		Trilogy Innovations	
Virohan	Zee	ZL Technologyes	Zomato	1k Kiran	

Alumni Relations

Alumni Cell Initiatives:

Initiative #1	Alumni Engage
	-started this series with a talk on foreign opportunities by our alumni working in Ireland
	-plans to have events pertaining to the needs of both the alumni and students
	-interactive events with collaboration with different societies and fests in which alumni gets to relive those moments
Initiative #2	Restructured the Whole Alumni Cell to make it a self-sustainable team
Initiative #3	Alumni Talks: Ask your Alumni
	-Product Management (gave a unique opportunity to mentor 5 students who summarized the event learnings up to the point)
	-Placement Opportunities: multiple alumni were invited to deliver career advice in various streams of engineering and management positions.
	-IAS/IRS for Administrative services (planned)
Initiative #4	Alumni Database updated with over 1000+ proper data and reached out to almost 400 alumni through calling, linked in etc.
Initiative #5	Collaboration with alumni cell of different IITs
	-conducted an event "sarc tank" in collaboration with IIT B at PAN IIT level
Initiative #6	Social Media Engagement: Increased by posting a lot of posters on different occasions and planning to put some congratulations to any alumni for their achievements and some articles with alumni of different professions
Initiative #7	Local Chapters' Activities at IIT Bhubaneswar
Initiative #8	The Yearbook has been prepared to be released on the convocation event and a newsletter is under making which highlights the different happenings of the institute and achievements about our alumni.
Initiative #9	Articles have been published on alumni working in various professions. Conducted interviews with alumni professors.
Initiative #10	New Website has been launched and is working on its update of contents and design for maximum visibility and interaction.
Future plans	Global Alumni Meet with the theme of 10 year celebration of our alumni
	Mentorship program
	• Interactive events all year round for students and alumni to increase the connection and bridge the gap

Events

- Organized the Teacher's day celebrations on campus and invited alumni.
- Conducted a webinar on Product Management by Amit Ashu.
- Conducted a career counseling guidance session in four departments: SDE, Finance, Mechanical Core and Electrical Core by the filling speakers: Nawaz NM, Akarsh Balachandran, Raj Shah and Susheel Ujwal.
- Streamed all the webinars and talks on the official YouTube channel of Approached the alumni studying abroad for conducting webinars.



Bhubaneswar Chapter Meet

- Global Alumni Meet-Plan of action and logistics has been made ready.
- Prepared the event calendar of 2022-23 since the formation of the alumni cell and continued the work accordingly.
- Contacted and invited alumni to the convocation and helped collect data for the yearbook of graduating batch 2021, 2022.
- Contacted the alumni for mock placement and internship interviews in collaboration with the CDC.

Relations

- Interviewed many of our professor alumni as a part of 'Voyage to Professorship' series of interviews to be published in the upcoming newsletter spaghetti.
- Updated the Alumni Database of around 1000 Alumni by contacting them through various channels such as LinkedIn etc.
- Approached many Alumni for the Alumni talks and webinars sessions conducted throughout the year.

Scribes

- Collected and curated the responses from the Alumni Yearbook.
- Published a series of articles 'Voyage to Professorship' based on the interviews of our alumni professor, in working with the relations team.
- Article on the successful conclusion of the 11th Annual Convocation of IIT Bhubaneswar has been published.
- Articles have been published upon the Delhi and Bangalore chapters of the Alumni meet.
- Compiled a bunch of articles for the upcoming Alumni newsletter: Spaghetti

- Prepared interview questions for hosting the various Alumni talk sessions throughout the year.
- Managed the social media handle of Alumni cell with appropriate and catchy captions where we saw a rise to almost 300 followers on Instagram.

Design

- Designed the yearbook.
- Designed the posters for various events, alumni and guest talks organized in the last semester.
- Designed the newsletters.
- Designed the posters and invitation letter for the chapter meets.
- Designed the memento for "Young Achievers Alumni Award".

Along with Alumni Association:

- Collaboration with alumni cell of different IITs Became an official member of PAN IIT - attended event and meetings with PAN IIT
- Social Media Engagement: Increased engagement by posting a lot of posters on different occasions and planning to put some congratulations to any alumni for their achievements and some articles with alumni of different professions
- Local Chapters' Activities Conducted Delhi and Bangalore chapter meets
- New Website has been launched with Almashines. It is getting updated in terms of content, design for maximum visibility and interaction.
- Helped in finding relevant opportunities to existing students Association helped in inviting the companies over campus for placement season 2022-23.



Corporate Social **Responsibility (CSR Cell)**





The CSR (Corporate Social Responsibility) Cell of IIT Bhubaneswar is a student-led organization that works towards contributing to society and addressing various social, economic, and environmental issues. The Cell aims to sensitize and encourage the IIT Bhubaneswar community to take responsibility for society and give back to society through various initiatives.

The CSR Cell of IIT Bhubaneswar collaborates with various NGOs, government bodies, and local communities to identify the most pressing issues and address them through sustainable solutions. Some of the focus areas of the Cell include education, healthcare, environment, and livelihood.

The Cell organizes various events and programs throughout the year, such as blood donation camps, health and hygiene awareness campaigns, plantation drives, skill development workshops, and fundraising events. Additionally, the CSR Cell also provides a platform for students to work on their social projects and initiatives, and provides them with necessary support and resources.

Overall, the CSR Cell of IIT Bhubaneswar is committed to promoting social responsibility and sustainable development among students and the community, and making a positive impact on society.





Start-Up Centre

IIT Bhubaneswar Research and Entrepreneurship Park is Subsidised incubator of Startup Odisha and Co-incubation facility with IIT Kanpur (FIRST) and recognized Oil India incubator for SNEH. We have received 23 numbers of Letter of Intent for incubation and incubated 10 startups in financial year 2022-2023. One start-up graduated from IIT BBS REP. The research park has 40,000 sqft Space in city, 29 acres land in campus which will be developed to world class Entrepreneurship destination for tech startups.

MOU

- HDFC bank MOU for ease of banking for startups.
- MoU for Co incubation with IIT Kanpur incubation centre.
- MoU with Internshala for getting freemium services to get interns
- MoU with Indian bank for Collateral free loan.
- MoU with Arthayan for free digital assets
- MoU with Mizoram university for co incubation
- MoU with Oil India for incubator for Oil India supported startups.
- MoU with Entrepreneurship Development council
- AROVR Pvt Ltd is Recreating History and Cultural 7. antiquities using ARVR technologies in an in situ model for clients
- 2. Preeminence Smartech Pvt Ltd manufacturing LED bulbs with remote control and other futuristic home products and also working on retro fitting as well.
- 3. Archon Motors Pvt Ltd www.archonmotors.com: An idea of an advanced electric mobility solution and to be the game changer in the EV ecosystem we came together in 2015 to build our first prototype project which eventually got famed in various platforms. Convinced with the outcome and extensive research we are determined to revolutionize the industry by providing the product to our consumers with the touch of traditional aspects
- 4. Tensift Farmers fertiliser Pvt Ltd is working to make fish feed out of kitchen waste and producing larvae of desired fish feed.
- 5. V bharat Pvt Ltd is a fintech startup with focus on rural development currently start
- 6. VR Guides Pvt Ltd is virtual tourism startup who is building virtual tourism 3d modules for various places across Odisha.

EVENTS

- Startup Boot camp: Initial boot camp for nearby schools and colleges to build startup awareness and knowhow for teachers and students.
- Startup Boost Camp: A thorough workshop with all courses to help the startup figure out how to conduct their company from formations to funding and beyond.
- Startup Interface: Interface among startups with pitch sessions in front of HNI.
- Outreach programs: various colleges and institutions by participating in various events and also taking up sessions.
- 7. Automatrix Pvt Ltd is robotics start-ups building agricultural drones with higher capacity and auto pilot features.
- 8. Ugreen Technologies Pvt Ltd is a start-up working on decarbonisation prototype for Oil India under Oil India incubation facility. They have plans to make the companies fully carbon zero.
- Chakroborty and Lahkar innovations Pvt Itd: Building www.grupverse.com a community for groups to interact and build team spirit in sharing knowledge and initiate discussion making learning and networking easier and creating a bigger network faster.
- Sigmascott Pvt Ltd is a craft based social enterprise, empowering women artisans of Odisha by creating dignified livelihood opportunities. They make sustainable home décor and utility products from natural fibres
- Primp Technologies Pvt. Ltd building "getgroo" to build chain of salons by inculcating the existing small unorganised salons in an application which supports end to end solutions with all support needed imbibing augmented reality and Artificial intelligence.

E-Summit'23

E-Summit, the Annual Entrepreneurship conclave, was conducted by E-Cell from February 3rd – 5th. It consisted of various conclaves, guest talks, competitions, workshops, startup expo, internship fair and investor drive.

This year's theme is "Sustainability: The Secret to Substantial Success". The summit featured keynote speakers who are experts in sustainable business practices and have successfully implemented them in their companies. Sh. Manas Ranjan Panda, Managing Director, Odisha, Computer Application Centre, graced the inaugural event as a chief guest. Sh. Panda highlighted the increasing contributions of the startup and entrepreneurship movements to the Indian economy, focusing on Make in India. More than 400 participants graced the inaugural ceremony

TheseconddayofE-Summit'23consisted of various speaker sessions, events and competitions. The Sustainability Conclave panel was attended by Ranjan K Panda, Convenor-Combat Change Network, India, Shyama Jha -Social Entrepreneur, Founder of Millet Magic Foundation. and Geeta Bora, Founder Spherule Foundation and Social Entrepreneur, The panel discussion covered the topics like Major challenges of sustainability development, the Effect of sustainability during a pandemic,

There were events like startup internship fair, invest up – an event focusing on funding and mentoring, Enigma – the competition to bring up the ability to analyze and come up with the answer to a real-time problem, BPlan – the business planning competition, BizQuiz-a quiz competition based on Entrepreneurship and Business, Marcatus – Marketing competition, a workshop on Al and ML and the day concluded with the second round of Entrepreneurial Ideation. This year Startup Fair and Innovation expo- an event to showcase innovative project or ideas was a grand success with the participation of more than ten startups and 40 teams. Also, a mental health session was conducted for startup founders to address entrepreneurs' common challenges and stressors. The session covered several key topics, including stress management, mindfulness, and the importance of seeking support.

An exclusive Women Entrepreneurs Conclave was held for the first time during ESummit'23. The panel consisted of Dr Lita Mohapatra, Founder/ CEO at Losjovenes Clinilogic Pvt Ltd and Founder of Asrava Foundation; Dr Rosalin Patasani Mishra, President-Parichay Foundation; Ms. Prasanna Pati, Director at Indus College of Engineering (ICE), Bhubaneswar, Ms. Sony Samal, Founder & Director -72 DPI Skillz and Ms. Lipsa Hembram, Founder & Creative Head at Galang Gabaan. The conclave covered topics like the effects of social responsibilities and industrial restrictions in their careers, the impact of COVID on women's entrepreneurship, challenges they faced during the startup phase in business,

On Day 3 the other major event held were IPL Auction event, a workshop on Cloud Computing and it ended with the Closing Ceremony. Overall, E-Summit'23 had more than 2500 participants participating in various online and offline events. The summit had a participation of more than 450 students from multiple states, including Andhra Pradesh, Maharashtra, Tamil Nadu, Kolkata and Bhubaneswar city.

Other than E Summit, E cell also conducted an online interactive talk with Ridhima Arora, Director Namhya Foods on her entrepreneurial journey on August 21, 2022





Technology Incubation Centre

Two new projects were recommended in year 2022. The new projects are in the area of "Biomass of biochar pellets through Microwave Torrefaction" submitted by Dr. Remya Neelancherry from School of Infrastructure and in the area of "Real-Time Road Traffic Monitoring". Proposed by Mr. Kalipada Chatterjee under the Mentorship of Dr. Rajan Jha, School of Basic Sciences.

Also, there are three other projects are running under TIC since year 2021, two being the faculty projects (one each from SES and SIF) and one by a students Ms. Rithika Gujarathi of SIF under mentorship of Dr. Anush K. Chandrappa. The student project completed in year 2022 whereas the two faculty projects by Dr. Remya Neelancherry, SIF and Prof. P. R. Sahu, SES were evaluated and given one year extension uptill Aug 2023. The seventh call for the fresh projects for the year 2023-24 has already been advertised.





Rajbhasa Ekak

In pursuance of the Official Language Policy of the Government of India, Rajbhasha Ekak of the Institute promotes and propagates the progressive use of the Official Language Hindi at IIT Bhubaneswar. The Rajbhasha Ekak of the Institute wholly tries to follow the rules and regulations of the Govt. of India related to the Official Language, Hindi. The Rajbhasha Ekak is not only working with full readiness and diligence towards compliance with the Official Language policy of the Union but also circulating the instructions received from time to time from the Department of Official Language, Ministry of Home Affairs and Committee of Parliament on Official Language to the different sections/offices/schools of the Institute. The Rajbhasha Ekak also provides the translation of the Institute Annual Report, Annual Accounts, Audit Report, RTI and various other documents, which comes under Section 3 (3) of the Official Language Act, 1963. Moreover, the Rajbhasha Ekak also translates or prepares other letters, correspondences, replies, etc., in Hindi. The Rajbhasha Ekak also ensures the bilingual display of different nameplates, notice boards, rubber stamps and routine-type forms and helps prepare the bilingual degree certificates awarded by the Institute during Convocation. Some of the highlights of Rajbhasha Ekak's activities in the Institute are as follows:

Hindi Workshop

In order to encourage officials/employees to perform their day-to-day official work in Hindi, the Rajbhasha Ekak organised 04 (Four) Hindi workshops on different topics during the financial year 2022-23. The main objective of these workshops is not only to spread awareness towards the use of Hindi but also to train staff members and help them overcome the difficulties they face while using Hindi in their day-to-day office work.

Hindi Pakhwada Ceremony

With a view to creating a conducive atmosphere for the progressive use of Hindiin the Institute, Rajbhasha Ekak and Hindi Literary Society of Students Gymkhana "Abhivyakti" organised "Hindi Pakhwada" from 1st September to 14th September 2022 in the Campus. In the days that followed, the Institute's Rajbhasha Ekak, in collaboration with the Hindi literary society "Abhivyakti" under student gymkhana successfully organized several competitions like Hindi Pustak Pradarsani, Dristikon Lekhan Pratiyogita (for both staff and students), Vaad-Vivaad Pratiyogita (for



Students), Hindi Samanya Gyan Pratiyogita (for Students), Hindi Monologue (Ekalap) Pratiyogita (for Students), Hindi Workshop (for Staff), Nibandh Lekhan Pratiyogita (for Staff), Angreji se Hindi Anuvad Pratiyogita (for Staff), Hindi Pratiyogita (For students of Kendriya Vidyalaya, IIT Bhubaneswar), Kavi Sammelan and Paribhashik Shabadavali evam Angreji se Hindi vakyansh lekhan (for Staff). Besides, the Central Library and Rajbhasha Ekak of IIT Bhubaneswar also jointly organised a "Hindi Book Exhibition" in the Institute's Central Library during Hindi Pakhwada to encourage staff members and students to read Hindi books. The motto of this 14 days programme was to celebrate the importance of the Hindi language along with creating awareness about its use in daily life.

Kavyanjali: Hasya Kavi Sammelan-2022

During the occasion of Hindi Pakhwada-2022, Hasya Kavi Sammelan (Poets' Summit) was organised on 03 September 2022, in which the well-known poets, namely, Azhar Iqbal, Shudeep Bhola, Manisha Shukla and Utkarsh Agnihotri were invited as guests. The programme 'Kavyanjali' was moderated by Dr. Rajeev Kumar Rawat, Senior Hindi Officer, IIT Kharagpur. The artists mesmerised



the audience with their poetic skills and instant humour. Prof. V. K. Tewari, the then Director of IIT Bhubaneswar, also graced the event with his presence. The students, faculty and staff members of the Institute participated enthusiastically in this poetry conference and made the program an unprecedented success.

Hindi Day Celebration

The Hindi Daycelebration was organised on 14th September 2022, and the day was graced by eminent speaker Dr. Akhileshvar Mishra, Principal, DM, School, Bhubaneswar, as Chief Guest, who delivered a talk on the importance of the Hindi language and motivated the staff members to adopt Hindi in their daily work. He also said that the objective of Hindi Diwas is to spread the Hindi language worldwide. The winners of the several competitions organized during Hindi Pakhwada-2022 were also awarded cash prizes and a certificate of participation.



Shri Manas Kumar Behera, Deputy Registrar, IIT Bhubaneswar, graced the closing ceremony and congratulated all the winners of the various competitions. Dr. Sunil Kumar Prajapati, PIC, Rajbhasa Ekak, IIT Bhubaneswar read out the message of Hon'ble Shri Amit Shah, Home Minister and Cooperation Minister, Govt. of India. The vote of thanks was proposed by Dr. Sambhunath Sahoo, Assistant Librarian and In-charge Hindi Officer at IIT Bhubaneswar.

Bilingual Website

As per the Official Language Policy of the Government of India, Rajbhasha Ekak maintains a bilingual update on the Institute's website.

Committees

Official Language Implementation Committee (OLIC)

An Official Language Implementation Committee (OLIC) has been constituted in the Institute under the chairmanship of the Director of the Institute. Its meetings are held regularly in each quarter, i.e., on 04-07-2022, 26-09-2022, 23-12-2022 and 24-03-2023. This is the supreme committee of official language in the institution that chalks out strategies to implement the constitutional provisions of the Official Language Policy of the Union in the Institute with a view to achieving the targets prescribed in the Annual Programme issued by the Department of Official Language, Ministry of Home Affairs, Govt. of India. The Committee periodically reviews the progress made in using the Official Language (Hindi) and recommends measures to be taken to effectively implement the Official Language Policy.

Town Official Language Implementation Committee (TOLIC)

In order to promote the progressive use of the Official Language in the offices/undertakings/banks, etc., of the Central Government spread across the country and to overcome the difficulties in the way of implementation of the Official Language Policy, a joint platform was felt so that all the offices/undertakings/banks, etc. can discuss together. As a result, it was decided to constitute the Town Official Language Implementation Committees. The main objective of forming these committees is to review the implementation of the Official Language Policy in Central Government offices/undertakings/banks, etc., to promote it and overcome the difficulties in its path.

IIT Bhubaneswar is an active member of the TOLIC constituted for the central government offices in Bhubaneswar. There are two meetings held in a year on a half-yearly basis. The 71st half-yearly meeting of TOLIC Bhubaneswar was organised by Principal Accountant General Bhubaneswar on 29-08-2022. Dr. Sunil Kumar Prajapati, PIC Rajbhasha Ekak, attended the meeting. The 72nd half-yearly meeting of TOLIC Bhubaneswar was organized by Principal Accountant General Bhubaneswar on 06-01-2023. Dr. Sambhunath Sahoo, Assistant Librarian (In-charge Hindi Officer), attended the meeting and gave his suggestions.

An Official Language Inspection of IIT Bhubaneswar was conducted by the Official Language Department, Ministry of Education, Govt. of India, New Delhi, on 08.09.2022

The Official Language Department, Ministry of Education, Govt. of India, New Delhi, conducted an inspection of official records and documents pertaining to the implementation and promotion of the official language at IIT Bhubaneswar on 08 September 2022. On the day of inspection, Shri Rajesh Jain (Section Officer), Smt. R. Sujatha, Private Secretary to Joint Secretary (Official Language), Ministry of Education and Smt. Archana (Section Officer) of the Ministry visited various Sections of the Institute along with Dr Sunil Kumar Prajapati, PIC-Rajbhasha Ekak to account for work being done in the Official Language, Hindi, in the institution.

During the inspection, various official records and documents such as Quarterly Rajbhasha Reports, files of meetings of the OLIC, files pertaining to the compliance of Section 3(3) of The Official Language Act, 1963, Proforma of Rubber stamps, Forms, Boards, Name Plates, Visiting Cards and files of other Rajbhasha-related records and documents were inspected. Dr. Sambhunath Sahoo, Assistant Librarian (In-charge Hindi Officer) and other senior officials and employees were present during the inspection programme. The Inspection team spoke about the constitutional obligation of the employees of Central Government offices to make progressive use of Hindi in their official works. The team also appreciated the overall efforts made by Rajbhasha Ekak of IIT Bhubaneswar for maintaining a robust implementation system of official language.



Events

Plantation Drive organized at IIT Bhubaneswar on World Environment Day

IIT Bhubaneswar on the occasion of "World Environment Day" organized a plantation drive inside the campus aimed at campaigning for green culture and promoting a greener ecosystem along with providing a pollution-free atmosphere. The drive was inaugurated by Prof. Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar.

The plantation of the trees was successfully carried out as per the planned schedule. Many plant saplings of different types and sizes were planted during the plantation drive. Also participated in the drives were Deans, Dr. Debi Prosad Dogra, PIC Horticulture Academic area, IIT Bhubaneswar along with other faculty, staff and their respective families.



Kendriya Vidyalaya Inauguration

The proposal for opening of a new Kendriya Vidyalaya at IIT Campus Bhubaneswar under IHL Sector, Odisha from the academic year 2022-23 has been sanctioned. Shri Dharmendra Pradhan Ji, Hon'ble Union Minister of Education & Minister of Skill Development and Entrepreneurship will grace the occasion of Bhoomi Pujan at the proposed site and inaugurate the temporary building on 11.06.2022 from 11 am onwards.

The proposed new Kendriya Vidyalaya (KV) at IIT Bhubaneswar is going to be spread over 10 acres of land provided by IIT Bhubaneswar in its permanent campus. Initially, the academic session 2022-23 will commence with classes from Std I to V. The entire cost of running the Kendriya Vidyalaya shall be borne by IIT Bhubaneswar. With the opening of Kendriya Vidyalaya, the local residents of Jatni region will be benefitted immensely.





International Yoga Day

The 8th International Day of Yoga was observed on 21st June 2022 (Tuesday) at the Community Centre of IIT Bhubaneswar with great enthusiasm and vigour. Swami Siva Chidananda Saraswati, the founding member of the Sivananda Centenary Boys' School, Bhubaneswar was the Chief Guest of the event and joined the celebration physically at the age of 85. Cdr. V. K. Jaitly (Retd), esteemed member of Board of Governors of IIT Bhubaneswar graced the occasion as the Guest of Honour and addressed the gathering with his overwhelming speech. Prof. P. V. Satyam, Dean (SA) and Shri Debaraj Rath, Registrar I/C of IIT Bhubaneswar with students, faculty, officers, staff and their family members actively participated in the event. The theme for International Yoga Day 2022 was 'Yoga for Humanity'.

The participants and Yoga teachers assembled for the practice session at the Community Centre in large number and practiced various postures of Yogasana with great interest. Swami Siva Chidananda ji, Chief Guest gave an interesting spiritual talk on "Life in Yoga" in a calm and creative manner.Prof. P.V. Satyam welcomed the guests and reminded the gathering about the benefits of practicing yoga in everyday life and highlighted the potential and benefits of customization to suit every individual. He, on behalf of the Director of IIT Bhubaneswar, Prof. V. K. Tewari congratulated the

campsites for participating the celebration in large number. Prof. Tewari expressed that Yoga is a way of healthy life and students can learn better concentration and problem solving through Yoga.

Prof. Satyam mentioned that at IIT Bhubaneswar, Yoga has been made a compulsory part of the undergraduate program. Thus, Yoga is a time-tested ancient practice and a gift provided by ancient India to mankind. He commended the remarkable efforts by the Honourable Prime Minister of India for popularizing the concept of Yoga across the globe by proposing the concept of International Yoga Day during his speech at the United Nations General Assembly, on 27th September 2014.

The programme was coordinated by Dr. Bankim Chandra Mandal and Dr. Devesh Punera, EAA Coordinators. Also present at the event were Dr. Srinivas Karanki, President Student Gymkhana, Dr. Rajan Jha, PIC Security, IIT Bhubaneswar and other esteemed faculty members. The Yoga session started with the systematic practice of different "ASANAS" of standing, sitting and laying positions smoothly changing in succession under the instructions of Yoga teacher and supervision of trained volunteers. The entire "Yogabhyas" lasted for an hour and ended with chanting of Sanskrit Shanti Mantra by all the participants.



Visit of Shri Ashwini Vaishnav

Maiden Visit of Hon'ble Union Railway Minister Shri Ashwini Vaishnav and Announcement of C2S Programme at IIT Bhubaneswar Maiden Visit of Hon'ble Union Railway Minister Shri Ashwini Vaishnav and Announcement of C2S Programme. The Hon'ble Union Minister for Railways, Communications, Electronics & IT, Shri Ashwini Vaishnav Ji undertook his first ever visit to IIT Bhubaneswar today i.e. on 24.07.2022. Duration of the programme was from 11 am to 12:45 pm. A brief presentation of the Academics, Research and Development activities of IIT Bhubaneswar was presented by Dean Academics.

Hon'ble Minister interacted with the faculty members and students about the on-going research activities and related matters on Integrated Circuit (IC) Design, Semi-conductor Technology, Railways Engineering such as joining of thick rails, rail joint integrity testing, fatigue life estimation of engineering components, vibration & dynamic control.

Hon'ble Minister made a huge announcement towards approval of the Hon'ble Prime Minister sanctioning of the project and establishment of the centre named Chips to Startup (C2S) at IIT Bhubaneswar. IIT Bhubaneswar became the 31st Institute of the country to get this honour of Chip Designing and Manufacturing.





The Minister also expressed his willingness to establish a Centre of Excellence on 5G Spectrum at IIT Bhubaneswar. IIT Bhubaneswar will identify ten application areas and uses of 5G Spectrum and will submit to the Minister Ji for getting the approval. He further, announced that there will be a collaborative research and signing of MoU with Gati Shakti University of Ministry of Railway to give thrust in the areas of transport engineering and communication.

The Minister expressed his gratitude to the hon'ble Prime Minister of the country and Shri Dharmendra Pradhan, Hon'ble Education Minister for getting this project implemented at IIT Bhubaneswar which will be proved to be a milestone in the areas of indigenous manufacturing making the country self-reliant and Atma Nirvar.

The programme was graced by Dr. R. P. Singh, Hon'ble Chairman, Board of Governors of IIT Bhubaneswar. Prof. N. C. Sahu, Dean Academics, Prof. P. V. Satyam, Dean Student Affairs, all other Deans and Associate Deans, Heads of Schools, and Associate Heads of Schools and Shri Debaraj Rath, Registrar, IIT Bhubaneswar were present during the discussion. The Minister had a lively and active discussion with the students of IIT Bhubaneswar and urged them to dream big and keep the hunger alive to reach greater heights



Opening of Classes of KV IIT BBS

It was indeed a special moment for the faculty, staff, students, and parents of New Kendriya Vidyalaya-IIT Bhubaneswar, as the occasion drew unparalleled enthusiasm in everyone in witnessing a spectacular opening of Classes from 1 to 5 of the school. Dr. Rajendra Prasad Singh, Chairperson, Board of Governors, IIT Bhubaneswar and also bestowed with the additional responsibility of Chairperson, Board of Governors, IIT Kharagpur graced the occasion as a Chief Guest and Shri Debaraj Rath, Registrar, IIT Bhubaneswar, graced the occasion as the Guest of Honour in the august presence of Dr. S. Bose, Deputy Commissioner, KVS, Shri D. P Sharma, Principal I/c KV-IIT Bhubaneswar & Principal, KV Khurda road and other dignitaries, guests, well-wishers, and parents.

The 1st Class of newly established KV IITBBS was ceremonially opened today making a beginning of the new era of primary learning at IITBBS starting its academic session for 2022-23 with an admission of 128 students out of 200 sanctioned seats. The school will soon seat more number of students in the form of Class VI-VIII, admission for which will be completed by this week.

Speaking on the occasion, Honorable Chairperson, Dr. Rajendra Prasad Singh Ji, extended his heartfelt congratulations to the students and parents to be part of this auspicious moment. He briefly highlighted the journey of IIT Bhubaneswar to establish the New Kendriya Vidyalaya at its permanent campus. He said that it was the dream of our Hon'ble Minister for a long time that comes true. He further added, let's hope that this temple of learning will stand erect for many years to come, giving the light of truth and knowledge and thereby fulfilling the real purpose of education. We need to dedicate ourselves to build up this beautiful edifice of learning as a landmark for the whole country. Addressing the parents, he said that earning money in life is not so worthy if your children do not develop properly. The best income of life is your children's development in all aspects. On this occasion, Shri Debaraj Rath, Registrar expressed his gratitude to the Hon'ble Prime Minister of India, Shri Dharmendra Pradhan, Hon'ble Education Minister and Prof. V. K. Tewari, Director, IIT Bhubaneswar for their remarkable steps to build up this beautiful temple of learning not only for the state of Odisha but also for the entire country. This is the moment we have

waited for a long time; we should be proud & witnessed this grand maiden opening of Classes from Std I to V. He also said that with the hands of the teachers the school would grow at its optimum level.

Dr. S. Bose, Deputy Commissioner, KVS addressed the gathering and expressed his gratitude to all the team members for their support and start of this KV in record time. He also expressed that today is a very auspicious day as Smt. Droupadi Murmu who belongs to the State of Odisha is taking oath as the 15th President of India.

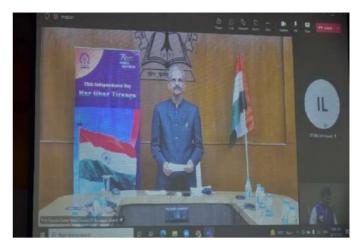
Shri D. P Sharma, Principal I/c KV-IIT Bhubaneswar & Principal, KV Khurda road in his vote of thanks speech profusely congratulated the team of IIT Bhubaneswar for the timely support and he also motivated the students of KV for their bright future. The opening ceremony ended in a happy and fun celebration with the distribution of gifts, and chocolates to the students by the Hon'ble Chairperson.



76th Independence Day with great enthusiasm

IIT Bhubaneswar celebrated the 76th Independence Day at its Permanent Campus in the playground adjacent to Mahanadi Hall of Residence. Prof P. V. Satyam, on behalf of the Director Prof. V. K. Tewari, hoisted the National Flag, offered floral tribute to the Father of the Nation and Bharat Mata. The national anthem was sung by everyone in a rhythmic chorus. The faculty, staff, students, children of the Kendriya Vidyalaya participated in the celebrations in large numbers with patriotic fervour. The first part of the program concluded with the brave daredevil show by the Institute Security and Fire units.

The second part of the program started at the Community centre with the Independence Day pledge led by the Director Prof. V. K. Tewari, who was connected through video conference from IIT Kharagpur. In his address, Prof. Tewari congratulated everyone on the occasion of Azadi ka Amrit Mahotsav and addressed the gathering recalling the martyrs and freedom fighters who fought for the freedom and those who laid down their lives. He reminded that it is the responsibility of everyone to strengthen the spirit of freedom, carry on nation-building, and give the nation the right place it deserves. He reminded about the clarion call made by Shri Narendra Modi ji, Hon'ble Prime Minister for the creation of Aatma Nirbhar Bharat. The director appreciated the support provided by the union Education minister in opening Kendriya Vidyalaya at IIT Bhubaneswar campus and union minister of railway, communications, electronics and IT in establishing centre for chip to startup (C2S) at IIT Bhubaneswar.



The celebrations were followed by some colorful cultural programs by the students of Kendriya Vidyalaya, IIT Bhubaneswarand IIT Bhubaneswarstudents' Music society 'Aaroh'. To commemorate the India's 75th Independence year as the Azadi Ka Amrit Mahotsav Celebration, the celebrations were started with a Symposium "India@75" where one of the leading Author, Columnist of India and Founding Member of the Governing Council of India Foundation (IF), Shri Ram Madhav delivered his lecture on 13th August at the Community centre.

Also, present during the event was Prof Brahma Deo, Dr Srinivas Karanki, President Students' Gymkhana, Dr. Mihir Das, Chief Warden, Shri Debaraj Rath, Registrar, Dr Bankim Chandra Mandal, EAA Co-coordinator, faculty members, staff and a large number of students from IIT and KV. The vote of thanks was proposed by Dr. Devesh Punera, EAA Coordinator.

Exhibition on Tribal Heros

IIT Bhubaneswar in association with the National Commission for Scheduled Tribes (NCST) successfully organized a Colloquium on the Contribution of Tribal Leaders in the Indian Struggle for Independence, on 3rd September 2022 at IIT Bhubaneswar. It was preceded by an informative exhibition of portraits of the Tribal Freedom Fighters. The colloquium was graced by Shri Bishweswar Tudu, Hon'ble Minister of Tribal Affairs, and Minister of Jal Shakti, Govt. of India. He motivated the students with his energetic demeanor and emphasized the significance of remembering our tribal leaders' struggles for advancing in life.Hespokeabouthowdifferentgovernmentprogrammes brought tribal community closer to mainstream society. He spoke about how the then Prime Minister Atal Bihari Vajpayee initiated many schemes for the first time. He also shared his personal experiences of deriving motivation to do great work for society from the great tribal leaders of freedom struggle. He enthusiastically replied queries from the audiences. Shri Sanatana Majhi, president, Bhanj Disom Parghana Mohal, shed light on the rebellions, movements,

uprisings, individual struggles and unsung heroes from the tribal communities.Prof. Milind Dandekar informed the gathering about the objectives and motivations of NCST. He emphasized role of Indian Constitution in shaping up the various welfare measures for the community. A very informative video clip of NCST was played to the audience to highlight the different activities of the commission. The chief patron, Prof. V. K. Tewari, Hon'ble Director, IIT Bhubaneswar, focused on the role of the education system in protecting and developing our great nation. He narrated how gurukuls were systematically destroyed by the colonial era to churn out clerks rather than researchers. How the text books emphasized more on the events outside of the country rather than our own culture and diversity. Dr. Dukhabandhu Sahoo, Head, School of Humanities, Social Sciences and Management, IIT Bhubaneswar, delivered the vote of thanks. In the vein of celebrating the Azadi ka Amrit Mahotsav this year, this occasion revisited our ancestors' tales of valor and patriotism.



Engineer's Day

IIT Bhubaneswar celebrated Engineer's Day on 15th September 2022, to mark the birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvarayya, as a tribute to one of the greatest engineers of the country for his outstanding contribution to society. The celebration was attended by many students, faculty, officers, and staff members. Prof. V K Tewari, Director IIT Bhubaneswar extended his greetings to the Chief Guest, all the dignitaries and participants on this occasion. Dr. Prasant Kumar Sahu, Dean (AA & IR), gave the welcome address and invited the Chief Guest.

The Chief Guest, Dr. Narayan Chandra Pal, Engineer In Chief, Designs, Works Department, Government of Odisha, delivered the Engineers' Day lecture on "Multi-Disciplinary Engineering Challenges for the Atmanirbhar Bharat or Self Reliant India".

The topic dealt with numerous experience of Dr.Pal to understand the importance of contribution of the Engineers in National Building and developing National Infrastructure and the importance of a Multi-Disciplinary approach in research and Education. Dr. Pal shared inspiring words to young Engineers, suggested to widen their field of study and interest. Dr. Pal discussed the life history, achievements, and contributions of Sir Mokshagundam Visvesvarayya in minute detail. Dr.Pal conveyed his wishes to all the young Engineers, and said he expects to see many of them be Sir Visvesvarayya of future.Dr. Dinakar Pasla, Associate Dean (R&D), proposed a vote of thanks.



Gandhi Jayanti

Today marks the 153rd birth anniversary of Mahatma Gandhi ji the father of the Nation. The day is also celebrated as "International Day of Non-Violence" in remembrance of the 'Mahatma' and to honour his path of Ahimsa (non-violence). The concepts of 'Satya', 'Ahimsa' and 'Satyagraha' are eternally valid and globally applicable. This auspicious day assumes special significance as the nation celebrates the 'Azadi Ka Amrit Mahotsav' and on this occasion let us all pay homage to the great personality who taught the world that even the toughest wars can be won with peace and truth.

On this day we are commemorating the birth anniversary of another legendary personality Shri Lal Bahadur Shastriji, former Prime Minister, pay our respectful tributes to him, derive inspiration from his life, and rededicate ourselves to uphold the values he stood for.



Vigilance Awareness Week

IIT Bhubaneswar observed Vigilance Awareness Week 2022, a week long programme starting from 31st October to 6th November 2022 with the theme "Corruption free India for a developed Nation" -भूष्टाचार मुक्त भारत - विकसित भारत" as mandated by the Central Vigilance Commission (CVC). A program was organized at the Community Centre of IIT Bhubaneswar. The chief guest of the event was Sri Yeshwant Kumar Jethwa, IPS, and Director Vigilance.

Also present at the occasion were Prof. P.R. Sahu, Chief

Vigilance Officer (CVO), Shri Debaraj Rath, Registrar along with active participation by faculty, staff members and students. The meeting ended with vote of thanks.





Stakeholders Consultation on Draft National Credit Framework (NCrF) Hosted by IIT Bhubaneswar

IIT Bhubaneswar organized an awareness workshop for Stakeholders Consultation on Draft National Credit Framework (NCrF) on 24th November 2022 as per the detailed program. This Draft National Credit Framework

is jointly developed by UGC, AICTE, NCVET, NCERT, CBSE, NIOS, DoSEL, DoHE, MoE and MSDE.





Constitution Day

Indian Institute of Technology (IIT) Bhubaneswar joined the celebration of the "Constitution Day" also known as "Samvidhan Divas" organized by the Ministry of Parliamentary Affairs, New Delhi to commemorate the adoption of Constitution of India as per the directives of the Ministry of Education, Govt. of India. All participated and aptly listened to the addresses by Hon'ble President, Hon'ble Vice-President, Hon'ble Prime Minister, Hon'ble Minister of Parliamentary Affairs and Hon'ble Speaker of Lok Sabha.

Prof. Shreepad Karmalkar, Director, presided over the participation of the event from IIT Bhubaneswar and offered floral tributes to Dr. Bhim Rao Ambedkar, the Chief Architect of the Indian Constitution. The faculty, staff and students at IIT Bhubaneswar will surely strive to uphold the core values behind the Constitution in letter and spirit".

The Students participated in the programme from their respective places. Also present on the occasion were Deans, Heads of Schools, Registrar, IIT Bhubaneswar along with Faculty, Officers and Staff of the Institute.

74th Republic Day

IIT Bhubaneswar celebrated the 74th Republic Day in the Institute with patriotic fervour. The function started with unfurling of the National Flag followed by review of the parade by Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar.

Speaking on the occasion, Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar reminded that Republic Day commemorates the adoption of Constitution of India which assures citizens of the nation with justice, equality and liberty, and endeavours to promote the fraternity with the core values the land has been believing in for ages. On this occasion, he called up on everyone at IIT Bhubaneswar to up-hold the core values that were the foundation for the Constitution of India in the governance, functioning at work place as well as in day-to-day life.

He called upon the BBSites to continue to protect themselves from the pandemic by following social distancing, wearing of masks, sanitizer and giving priority for development of immunity, for some more time and called for performing duty with a renewed vigour in fulfilling the commitment called upon by Shri Narendra Modiji, Hon'ble Prime Minister of India for the creation of "Aatma Nirbhar Bharat".



11th Convocation

IIT Bhubaneswar celebrated its 11th Annual Convocation at Community Centre of the Institute. The event was graced by the Chief Guest Prof. L. M. Patnaik, Adjunct Professor and NASI Senior Scientist, Consciousness Studies Program, National Institute of Advanced Studies, IISc Bengaluru. The Convocation began with a majestic and grand academic procession followed by the award of medals to meritorious students. Graduation degrees' were awarded to 671 students including 55 (Ph.D); 172 (M. Tech.); 90 (M.Sc.); 81 (Dual degrees) and 273 (B. Tech) respectively. Prof. L. M. Patnaik, the Chief Guest on the occasion, motivated the students to become role models in field of technology. He emphasised on sustainable development inclusive of diversity and technology driven efforts to make India a knowledge superpower. He hailed IIT Bhubaneswar for its contribution in nation building through world class Research and High standards in imparting Education in Science and Technology. He also expressed that industryaligned and research-oriented higher education that students receive at IIT will benefit them through their lives. Speaking on the occasion, Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar presented a detailed report on various efforts and achievements of IIT Bhubaneswar including imparting High-Quality Technical Education in Science & Technology. This year IIT has achieved high placement standards with two times rise in average salary package offered to students. He emphasized on IITs efforts in establishing International collaborations on Scientific Industry oriented research. Dr R.P. Singh, Chairman, Board of Governors, was out of country and addressed the convocation through video recorded message. He extended his wishes to the graduating students. Vote of thanks was proposed by the Director on behalf of the Chairman. The ceremony was concluded by distribution of certificates and was great success.



15th Foundation Day

Indian Institute of Technology (IIT) Bhubaneswar celebrated its 15th Foundation Day on 12th February 2023. Dr. Mrutyunjay Mohapatra, Director General Metrology, Indian Metrological Department, Government of India was the Chief Guest. Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar, presided over the event. In his speech, Dr Mrutyunjay Mohapatra, Director General Metrology expressed his gratitude and gave best wishes to students of IIT BBS for future. He gave a detailed presentation on 'The Role of Science and Technology in Combating Climate Change.' Prof. Karmalkar highlighted the chronological evolution of IIT Bhubaneshwar from 2007 until now, and shared his plans for achieving the institution's vision of gaining global recognition for creating outstanding graduates and new knowledge. He said that the faculty have resolved to implement research based pedagogical best practices. These include interactive classes with discussion in smaller groups, particular attention to guality of problems posed in guizzes and assignments, and giving feedback to and taking feedback from students in proper format. Further, a course is being developed to improve the research skills of the students. The course would alert the students to the differences between the research process and course based education. It will highlight the centrality of truthfulness and originality in research, and discuss how to avoid plagiarism. IIT Bhubaneswar would play a leading role from the eastern zone of India, in the India Semiconductor Mission (ISM) which aims at establishing fabrication and design centers for semiconductor devices and chips. Other plans include strengthening of the the Research and Entrepreneurship Park and the collaborations with neighbouring research and educational institutions such as AIIMS etc. High quality online educational videos for students and researchers are also planned. Within the campus, two centres and five clubs have been started to provide platform to residents to reduce stress, express themselves, realize their potential, and support each other. These include: Day care centre -Vatsalya, Children's activity centre - Aananda, Ladies club -Feminine fusion, senior citizen's club - Vaisharadya, Health club - Niramaya, Gardening club - Avani, animal-human

peaceful co-existence club – Saha-Astitva. All these are run by women, pointing to women friendly environment in the campus. Faculty forum has been revived.

Faculty honoured with Certificates of teaching excellence include Dr. Debapratim Ghosh, Dr. Olive Ray, Dr. Srinivas Pinisetty, Dr. Meenu Ramadas, Dr. Sourav Sil, Dr. Chandrasekhar Bhamidipati, Dr. Kousik Samanta, Dr. Vasudeva Rao Allu, Dr. Rajakumar Guduru, Dr. Srikant Golapudi and Dr. Chetan. Certificates were also given



Visit -Finance Minister

Hon'ble Union Minister Nirmala Sitharaman ji addressed a large enthusiastic gathering of more than 600 students and faculty at IIT Bhubaneswar. She spoke on "Innovation and Youth - and fielded questions from the students on economy, finance and government policies. Prof. Shreepad Karmalkar, Director of IIT Bhubaneshwar welcomed our Hon'ble Union Minister Nirmala Sitharaman ji and introduced the institution and its innovation activities. He said the institute was established in 2008 and its present picturesque campus was dedicated to the nation by our PM Narendra Modi in December 2018. Since its inception, the institute has been following holistic and multidisciplinary education emphasized in the recent National Education Policy 2020. Thus, the institute is organized along schools each of which has a cluster of departments. Since inception, its faculty and students have published about 5000 research papers and filed 50 patent applications.

The institute has an active start-up center and Research and Entrepreneurship Park which is being modernized with state-of-the-art facilities. The Park has supported the development of over 50 start-ups and incubated around 20 start-ups. Two promising start-ups in the electric vehicle and digital

Communication fields are being mentored and supported, while 11 start-ups in the AR/VR domain are in the process of being incubated. The Park organizes workshops on "How to non-teaching staff for their meritorious service; the recipients included Dr. Bibhuti Bhushan Sahoo, Girish Kumar Pitta, Jignyasha Behera, Akasmika Sarangi and Ratikanta Mishra.

Also present on the occasion were, Prof. P V Satyam, Dean Student Affairs, Shri Debaraj Rath, Registrar, and several faculty members, staff, students of IIT Bhubaneswar and guests of IIT Bhubaneswar.



to start an enterprise" whose recent version had more than 1000 participants. It also holds a yearly E-Summit wherein guest talks, competitions, workshops, internship fair and investors drive help the participants bring their entrepreneurial skills out. The recent edition of the summit was attended by more than 2000 participants from the colleges of Odisha and other states.



Mother Language Day

International Matrubhasha Diwas was celebrated on 21 Feb 23 at the institute. Shri Ratnakar Rout, IAS (Retd.), Former Commissioner-cum-Director to Government of Odisha and Writer graced the occasion as Chief Guest. Shri Rout emphasised the role of mother language in shaping the personality of the individual. He gave a detailed narrative of how International Mother Language Day has been adopted by the United Nations "to promote the preservation and protection of all languages used by peoples of the world" by its resolution of 2002. Mr. Rout has authored several books in Odiya and English, a copy of which was gifted to the institute.

Prof. Shreepad Karmalkar, Director IIT BBS, in his address illustrated the power of mother tongue using a personal story from his time as a student in Chennai. Once, he was stopped by a traffic policeman for an unintended traffic rule violation. They started speaking in Thamizh to one another. The police officer deduced that the man is Marathi based on the name on his licence. The policeman released him instantly because he was so thrilled that a "North-Indian" had mastered his "South-Indian" mother tongue! Prof. Karmalkar announced that to promote "Matribhasha," the institute would henceforth require the research scholars to submit versions of their thesis abstract in Hindi and mother tongue.

The program was followed by the cultural performances by members of IIT staff and families. Prof. S. R. Samantaray, Head School of Electrical Sciences, gave the Vote of thanks. Dr. Sreetama Mishra, Assistant Professor, School of Humanities, explained the history behind the Mathribhasha Diwas, and anchored the program.



National Science Day and 13th Research Scholar Day

Indian Institute of Technology (IIT) Bhubaneswar celebrated the National Science Day on 28th February 2023. There was a competition on 'Poster Presentation by the Research Scholars.' Dr. Satyanarayan Panigrahi, Associate Dean (PGSR), gave a brief overview of this poster presentation. This was followed by speeches by Prof. Shreepad Karmalkar, Director, IIT Bhubaneswar, and Mr Deepak Chaudhary, a Guest Speaker. Prof. Shreepad Karmalkar, Director, emphasized that to do good scientific research, a PhD student should be aware of the difference between courses based learning and research. As compared to course based education, research requires much higher level of skills in thinking, communication, experimentation and management. These skills like any other, can only be developed through practice and feedback. Over the next month, IIT BBS will undertake a training program for the Research scholars in communication skills. Peter

Medavar, a noble laureate, suggested that a researcher spend 30% of the time spent on research on how to present it, while Richard Hamming, another well-known scientist, opined this fraction to be as high as 50%. The training program was initiated with a talk titled "6 Secrets of Master Presenters" by Mr Deepak Chaudhary. In his talk, Mr Chaudhary, said a communicator must have a clear idea about the composition of the audience, and rehearse the talk a number of times, revising the script as many times as necessary. He said he prepares for almost six months to deliver a one hour keynote talk. One can begin with a couple of questions to grab the audience attention. Further, he/she should pay attention to body language, pauses and intonation to improvement engagement with the audience. He also mentioned the importance of feeling and influencing the emotions of the audience in a positive way.

2nd Techno Book Exhibition

Central Library, IIT Bhubaneswar organised a three-day long Techno Book Exhibition (2nd Edition) - 2023 on the 5th floor, Admin Building from Thursday 2nd March 2023 to Saturday 4th March 2023.

The Director, IIT Bhubaneswar and his wife inaugurated the event in the presence of registrar, library staff, faculty, students, and library staff of NISER. About 16 vendors and publishers of national and international repute are participating in the exhibition. There are 16 stalls with more than 50 thousand books on science & technology, engineering, social sciences, management, soft skills, literature, storybooks, children's education and entertainment. The exhibition seeks to instill a love for reading that lasts a lifetime.

In his message, Prof. Karmalkar, Director IIT Bhubaneswar pointed out the connection between reading habits, mindset and Nobel prizes. He quoted statistics as per which, per year, an average Chinese reads 0.7 books, Vietnamese 0.8 books, Indian 1.2 books and Korean 7 books. Only Japan compares with Western countries with 40 books, and Russia 55 books. Two countries that like to read the most in the world are Israel and Hungary. In Israel, the average



person reads 64 books a year and there have been eight Nobel laureates. Hungary has nearly 20,000 libraries, and an average of 500 people have a library. The nobel prizes Hungary has received belong to many fields – physics, chemistry, medicine, economics, literature, peace, etc.

A reason for not liking reading is that a child's personality is formed mainly from the family, and parents do not have the practice to read books. Another is "exam-heavy education", which makes young children not have the time and energy to read books outside. Even if they read books, those are to serve the exams.

Knowledge is power and property. People who read have a very different way of thinking. Even if they don't have brilliant achievements, they still have a great mindset. Books don't just affect an individual but the entire society. Many races are vibrant but not civilized. A community will develop or stay behind, depending on how many people read books and what type of books they choose to read. All faculty, staff, students and families from IIT Bhubaneswar and nearby institutes are encouraged to visit the book exhibition.



International Womens Day

Indian Institute of Technology Bhubaneswar celebrated the International Women's Day on 4th March, 2023 to honour the social, economic, and cultural achievements of women and to raise the awareness about women's rights and gender parity. This year's UN theme for the International Women's Day is "DigitALL: Innovation and technology for gender equality".

Ms. Abha Mishra, Head of Officer-Odisha, UNDP, graced the occasion as the Chief Guest and Adv. Namrata Chadha, Social activist, Ex-Member of Odisha State Commission for Women graced the occasion as the Guest of Honour. The event was presided over by Prof. Shreepad Karmalkar, the Director of IIT Bhubaneswar. Dr. Sasmita Barik, Chairperson, Women Welfare Committee welcomed and introduced the guests to the audience.

Speaking on the occasion in his presidential address, Prof. Karmalkar, Director, IIT Bhubaneswar spoke about how he visited the remote parts of Odisha, and found traditional practices in the state to be very female-centric. For instance, he talked about how the villages of Odisha were named after women from mythology. He also talked about the balance that is required between genders, and how some spaces in the society are navigable only for women. He ended by saying that women must recognise the Indian Institute of Technology Bhubaneswar



uniqueness of their roles, and the kind of strengths they possess, to bring good change into the society.

The Chief Guest of the evening, Ms. Abha Mishra delivered her talk on her own journey as a woman, the story of how she rose to be the woman she is, with the incessant support of her parents, including her father. Ms. Mishra emphasized that even though her father, friends and colleagues were males themselves, they always stood by her and encouraged her to grow. Therefore, women can be truly empowered only when they have the support of their peers, irrespective of gender.

The Guest of Honour, Adv. Namrata Chadha expressed her happiness for being a part of the International Women's Day 2023. She also expressed that there are innumerable contributions of womanhood on their course of journey of life by giving examples from the daily life in a straightforward way. Mrs. Chadha talked about the most commonplace issues that women face from domestic violence, to dowry,



to the lopsidedness of society towards male children. She talked about how these societies fundamentally arise from patriarchal domination. She laid importance on changing the mindset to changing society.

The program also included a few cultural activities performed by the faculty, staff and students of IIT Bhubaneswar. The program ended with the Vote of Thanks by Ms. Shraddha Jha, Coordinator, Women Welfare Committee, IIT Bhubaneswar. Also present at the event were Shri. Debaraj Rath, Registrar and several faculty members, staff and students of IIT Bhubaneswar.

In addition to the main celebration, a series of events were also organized by the Women Welfare Committee in collaboration with student's societies. A Self-Defence Training program, an Open Mic event were organized on 3rd March, followed by the Art, Debate and Poetry competitions on 4th and 5th March 2023.

Wissenaire 2023

Wissenaire, the annual techno-management festival of IIT Bhubaneswar, started on March 10. The chief guest, Dr. Omkar Rai, executive chairman of start-up Odisha, along with the director of IIT, Bhubaneswar, Prof. Shreepad Karmalkar, Dean of Student Affairs, Prof. P.V. Stayam, President of the student gymkhana, Dr. Srinivas Bhaskar Karanki, and Chairperson of Wissenaire'23, Dr. Srikant Gollepudi graced the inaugural evening with his presence. The event commenced with the launch of the theme video for the festival. The theme of this edition is Aeternum Reis: Redefining automobile and transportation technology in the light of accrescent exigencies. Indian Oil Corporation Limited (IOCL) acted as the title sponsor for the 3days long fest.

Dr Rai termed the festival a thoughtful event by IIT Bhubaneswar and appreciated the makers of the theme video. He highlighted the fact that only three percent of the start-ups belong to the sector of automobiles, and that there is a need to increase these numbers. He suggested that events like these help nurture the arena of start-ups and encourage entrepreneurship. Closing his speech, he insisted the students take advantage of the policies and incentives from the government of Odisha. The other dignitaries extended their wishes for the fest and marked their support for the journey of this edition. The Chief Coordinator of Wissenaire'23, Mr Shishir Reddy, expressed his gratitude through his vote of thanks. The fest is a conglomerate of technical and cultural events like Robo Wars, Colloquia, Math olympiad etc.





Ek Bharat Shreshtha Bharat

The "Ek Bharat Shrestha Bharat (EBSB)" programme, is an idea of a sustained and structured cultural connect between denizens of different regions was mooted by Prime Minister Shri Narendra Modi during the Rashtriya Ekta Divas held on 31st October, 2015, to commemorate the birth anniversary of Sardar Vallabhbhai Patel. Hon'ble Prime Minister propounded that cultural diversity is a joy that ought to be celebrated through mutual interaction & reciprocity between people of different states and union territories so that a common spirit of understanding resonates throughout the country.

IIT Bhubaneswar has been organising number of informative and cultural events under the aegis of Ek Bharat Shrestha Bharat (EBSB) and has formed an EBSB club consisting of students, staffs and faculty members to promote the spirit of national integration through a deep and structured engagement between paired states Union Territories (UT), for enabling people to comprehend and admire the diversity of the nation, thus nurturing a sense of common identity. As per the guidelines of MHRD, Odisha state has been paired with state Maharashtra, hence IIT Bhubaneswar being an institute of higher education in Odisha has been paired with IIT Bombay and NITIE Mumbai in the state of Maharashtra.

Continuing with the legacy of conducting EBSB events, EBSB club of IIT Bhubaneswar has organised several online literary and cultural exchange programmes including quiz, painting competitions with the institute of higher education in the state of Maharashtra.

As per the direction of MoE, on 14th January 2023, the EBSB club of IIT Bhubaneswar organised Makar Sankranti Celebration at IIT Bhubaneswar Campus. The posters, photographs and videos on the theme of Makar Sankranti and its significance in different states had been presented. Students, staffs, faculty and their family members enthusiastically participated and performed many dance, song, drama, recitations, and traditional attire parades in these cultural events with an integrative content relating to Makarsankranti. Spot quiz competition was conducted with questions based on the information on Makar Sankranti with active participation of the audience.



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On 1st April 2023, EBSB club of IIT Bhubaneswar conducted Utkal Divas celebration under Janbhagidari G20. The celebration was aimed to inform the culture, heritage and tradition of Odisha to the people of other states. On this occasion informative videos and posters were displayed depicting the tradition and culture of Odisha. Students and Residents of different states performed songs, dances and acts in Odia.

Ek Bharat Shreshtha Bharat-Yuva Sangam is an initiative of Government of India which focuses on conducting exposure tours of the youths comprising students studying in Higher Educational institutions (HEIs) & off-campus youths from one state to another state & vice versa. It provides an immersive experience of various facets of life, development landmarks, recent achievements and a youth connect in the host state.

During their visits, the youths will have a multi-dimensional exposure under five broad areas –

- Paryatan (Tourism),
- · Parampara (Traditions),
- Pragati (Development),



- Paraspar Sampark (People-to-people connect), and
- Prodyogiki (Technology).

The aim of Ek Bharat Shreshtha Bharat - Yuva Sangam is to build empathy and strengthen people to people connect between youth of various states. Under this youth exchange programme, youths across various states will visit other states for a 5-7 days' period during which they will get an immersive experience of various facets of the state they are visiting, and interact with the local youth.

Under Yuva-Sangam Phase-II, IIT Bhubaneswar is paired with Malaviya National Institute of Technology Jaipur to organize the exposure tour of students from Odisha to Rajasthan and Rajasthan to Odisha. IIT Bhubaneswar is the nodal institute of Odisha and the receiver institute for Rajasthan students. For the exposure tour of Odisha students to Rajasthan, 937 students (UG, PG, PhD) from all over Odisha had registered in the Yuva Sangam portal, and 45 (23 males and 22 females) of them are selected covering all districts of Odisha, having different types of educational backgrounds (Engineering, Science, Arts, Commerce, Management), having interest in different activities (Sports, Art, NSS, Environment etc).



The student's delegate travelling from Odisha to Rajasthan started their journey from Bhubaneswar on 10th May 2023, after a flag off event on 9th May 2023 in the presence of renounced international sand artist Shri Sudarshan Patnaik. During the visit, the students interacted with the Hon'ble Governor of Rajasthan followed by a cultural visit to Chokhi Dhani, visit to Sitapura, an interaction at Central Institute of Petrochemicals Technology and an exposure to Jaipur city. The students participated there in a Block Printing/Tie & Dye (Crafts) Workshop and plantation activity on the MNIT Jaipur Campus.

The other places of visit included a tour of Jantar Mantar, Hawa Mahal, City Palace, Jal Mahal, Amer Fort, heritage tour of Pink city, (local crafts) and shopping. Thereafter, the delegate will go to Udaipur and visit Shri Ek Ling ji Temple, Maharana Pratap Museum-Haldighati, Fateh Sagar Lake, Bagore ki Haveli, Shilpgram and the same will be followed by a Cultural Evening. An interaction with Start Ups at MNIT Jaipur Institute Innovation Council (MIIC) is also lined up.

At the same time, 45 youths from all over Rajasthan accompanied by 3staff members of MNIT Jaipur visited IIT Bhubaneswar during 16th May 2023 to 22nd May 2023. During their stay at IIT Bhubaneswar campus, the students from Rajasthan are taken for tour, to Puri Jagannath Temple, Konark temple and museum, Raghunathpur heritage village, Dhauli, Khandagiri, Triabal museum, Paradip port, Paradip Refinery, ICMR, CTTC, Revenshaw University, Skill Development Institute.



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They interacted with local villages near IIT Bhubaneswar under UBA. They were made acquainted with Odia cuisine, Odishi dance, Sambalpuri dance, Gotipua dance. On 20th May 2023, Hon'ble EM joined for Civil Reception and hosted a gala dinner at Taj Vivanta for the Rajastan Delegates and Odisha Delegates.

EAA Activities

Celebration of World Environment Day

On the eve of World Environment Day on 5th June 2022, the UBA team conducted a plantation and cleanliness drive in the Kansapada village. Around 100 coconut saplings were planted and distributed to the villagers.



Donation of Sanitary Napkin Vending Machine at Argul High School

It is aptly said, "If menstrual health and hygiene (MHH) is well managed from the start, it has a surprisingly high potential to contribute to increasing female empowerment at a critical stage of a girl's life." Keeping this in mind, a manual sanitary napkin vending machine was installed in Argul High School on June 4, 2022.



Visit to Gandhi Peace Centre

An educational and recreational excursion program was organized at the Gandhi Peace Centre in Bhubaneswar for the students of the government upper primary school in Khudupur village, near the IIT Bhubaneswar campus, on the auspicious occasion of Gandhi Jayanti on October 2, 2022. The purpose of the tour was to familiarize the students with the habits and principles of Mahatma Gandhi, fondly known as the Father of our Nation.



Robotics Exhibition at Argul High School

The students of Argul High School went to a robotics exhibition put on by UBA IIT Bhubaneswar and RISC IIT Bhubaneswar on August 27, 2022. The goal was to get this new generation interested in this growing new technology and a world where robots are taking over the work of humans.

The RISC team and the UBA volunteers displayed and explained the self-balancing see-saw, automotive robotic cart, self-ECG testing kit, and face identification system.



Survey by the Self-reliance team

The UBA Team of IIT Bhubaneswar, along with UBA Coordinator, Dr. Seema Bahinipati, conducted a preliminary selfreliance survey in the Kansapada village on **October 15, 2022**. The aim of this survey was to make them aware of the programs of the Skill Development Institute (SDI). They were motivated to join the SDI program as the courses could be of great help for their future, job security, etc. Also, their queries were clarified as much as possible.

Exhibition in the School of Earth, Ocean and Climate Sciences

The Unnat Bharat Abhiyan (UBA) team and the School of Earth, Ocean and Climate Sciences (SEOCS) of IIT Bhubaneswar organized an exhibition on October 22, 2022, as a part of the International Fossil Week celebration.

The theme of the exhibition was "Introduction to Earth,

Ocean and Climate Sciences" focussing on the evolution of life on Earth. More than 280 students from UBAadopted schools (Khudupur U.P. School, Padanpur U.P. School, Podapada U.P. School, and Aragul High School) and Kendriya Vidyalaya IIT Bhubaneswar participated in this exhibition.



UBA Day Celebration

The first annual Unnat Bharat Abhiyan (UBA) day of IIT Bhubaneswar was celebrated on **November 5, 2022**. The students of the UBA adopted villages, and former and current UBA volunteers also joined the event. The event started with the lighting of the candle by the UBA faculty coordinators and the teachers of the UBA-adopted schools followed by an introduction of the UBA coordinators.

The winners of the competition, i.e., essay writing, singing,

and drawing, conducted by UBA IIT Bhubaneswar on the theme "Aazadi ka Amrit Mahotsav" were facilitated with certificates and gifts. The teachers of the UBA-adopted schools and former volunteers of the UBA team were also facilitated and shared their experiences. During the cultural segment, the children delighted audience members with their lively and amusing singing and dancing performances. The celebration was ended with a vote of appreciation followed by a suitable lunch for all the attendees.



Health Camp by UBA

A free medical camp including a health checkup and medicine distribution camp was conducted by the UBA team (Health and Sanitation), medical officers, pharmacists, and nurses of IIT Bhubaneswar on the 12th of November 2022 at Kansapada village.



"Library in a classroom" at Podapada School

The recent pandemic has affected the reading habits of the students and led them to spend more times on screens. This is not only detrimental to her health but also deprives them of the pleasures of reading. In order to rekindle their love towards books, the UBA team donated a set of 100 books, neatly packaged in a hanging pouch, prepared by Pratham Books, and hence is called "Library in a classroom". The books are appropriate for the students of Class V - VIII, and the set of books has books in English, Odia and Hindi. The "Library in a classroom" set was donated to Podapada upper primary school in December, 2023 by the UBA Coordinator, Dr. Seema Bahinipati, on behalf of the team.



UBA Health Card

The Unnat Bharat Abhiyan team has started a novel initiative of allowing the villagers of the adopted villages to get access to our institute medical facility at Sanjeevan Health Centre in January, 2023. The villagers can take medical advice for non-serious ailments at the Centre. Our team has prepared a UBA health card for this purpose, one for each household in the village. So far, about 200 health cards have been distributed to the villagers and they have started to avail the free health check-up facility at our Health Centre. The villagers are very happy with this initiative and have thanked the team for their effort.

G-HITCH AINAI- UNNAT BHARAT ASHIYAN UBA STAMP & SIGNATURE	UBA HEALTH CARD SANJEEVAN MEDICAL CENTRE
	Name of Head of the Household:
(For Office Use only) Card Number : Date of issue :// Signature :	Signature/ Thumb impression
भारतीय प्रीडोरिकी संस्थान भुवनेवृत Indian Institute of Technology Brubaneswar अरवुल, सीराय - 752050 अंग्रेस, भारत, Argul, Khordha - 752050, Cdisha, India, Website, www.ilbba.a.n	Valid Through :/

Water Supply Connection for the Patch of Land near Kansapada Anganwadi

A small patch of land near Kansapada Anganwadi was being used to cultivate seasonal flowers and some vegetables. However, due to the lack of proper water supply to this land, the villagers were not able to utilize this area well. The entire land was properly cleaned, and unwanted bushes were removed using machines before laying proper water supply pipes.

This activity was conducted in January 2023. Donated a wheelchair for the villagers to help the elderly and sick villagers.





Donation of sports items and ceiling fans

Toy Donation Drive

The UBA team conducted a month-long toy collection drive in December, 2022 with the aim of collecting new and old usable toys from the campus residents. We collected about 200 toys and distributed them to the kids of the five nearby adopted villages in **January**, **2023** after careful screening of the toys. Toys were donated at the Kansapada Anganwadi centre for the young kids that can promote their motor coordination skills and brain development and most of all, increase their curiosity to know more about things around them.



To promote the value of physical education and encourage students to play outdoor games, the UBA team donated a few sports equipment items, such as cricket kit, badminton racquets, footballs, and skipping ropes, to the Podapada Upper Primary School in April 2023. The UBA team also donated a few ceiling fans for the classrooms since there has been an intense heat wave in our state recently.

Donation of Sanitary vending machines in the adopted village

Donated two sanitary napkin vending machines, one at the Argul temporary health center and the second one at the Community Room (Temple Store House) in Podapada in the month of April 2023.





Students' Activities

Science and Technology Council



Competitive Programming Contest

A weekend competitive Contest open to first year students. More than 95 students signed up for the event. The event was a thrilling experience for those who participated and provided an opportunity to show off their programming abilities and compete with other talented programmers.

Placement Challenge Series

A Series of 3 challenging competitive programming contests was organized. Top 20 from each and top 40 from overall ranking of all 3 contests were made eligible for mock placement interviews taken by alumni.



Software Development Series

A Software development series was held on 30th October 2022 to help students to start software development. It was about a three hour long session covering topics Modern Syntax, Asynchronous Programming and DOM Manipulation of JavaScrip

Session on Metaverse

A webinar on Web3, Block chain, Crypto, NFT's, DAOS taken by Lumos Labs.

GSOC Seminar

An informative seminar on GSOC (Google Summer of Code) was held on 22nd September 2022 focused on developing open source culture in the institute.

ICPC Session

A guidance session on ACM- CPC was conducted on 29th October 2022, which was hosted by our institute's ICPC Regional Qualifier, Rishvic Pushpakaran.

Codeverse

Team battle online coding competition in which a set of questions were given that needed to be solved within the time limit.





Hack the Box

It was a two day long cyber security based exercise in which 'flags' were hidden in a purposefully vulnerable machine. Competitors have to find the flag in order to increase their score.

Winter Coding Bootcamp

Winter Coding Bootcamp was a month-long programme for freshers, with four interactive workshops (2 online and 2 offline). We provided training in fundamental programming techniques and algorithms to participants with little to no prior coding experience.

Hackathon

Under the General Championship 2023, Neuromancers organized a software development hackathon which kicked off on 30th March and ended on 2nd April.All the 15 teams, which participated were judged by alumni of our own institute.Every team tried to give each other a good fight, which in turn inculcated new skills in all the participants.



Code Hasten

In association with WISSENAIRE 23 two level coding contests were organized. First level was online and the second one was offline mode.

CSS Battle

Under GC neuromancers hosted a CSS Battle event that brought out some of the most creative and talented web designers in the game. The event was a showcase of front-end development skills. Where people from all the branches participated.

Cross-Checks Chess Showdown

In the General Championship 2023, Neuromancers organized a Machine Learning based competition, Cross-Check Chess Showdown, in which the participants were required to prepare Chess Engines which compete against one another.



Risc- Robotics & Intelligent Systems Club

R.I.S.C Mini Projects

To provide students with a practical learning experience, mini projects were made by the students of the society. Projects included:

- Obstacle Avoiding Bot
- Line Follower Bot
- Ball Balancing Bot
- PID See Saw
- Face Detection and tracking bot.
- ECG tracking system.
- Intrusion Detection

Exhibition - in collaboration with Unnat Bharat Abhiyan (UBA)

RISC conducted an exhibition in collaboration with Unnat Bharat Abhiyan(UBA) at Arugul High School for exhibiting our projects to the students and intuiting them about technologies.



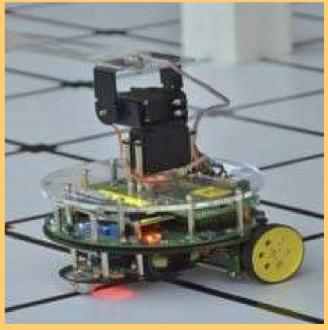
Unacademy National Robotics Competition (UNTECH)

UNTECH focuses on developing bots that could aid humans in day to day problems. RISC members are showing active performance in this ongoing competition. This time, a total of 7 teams participated in the competition.



E-Yantra Robotics Competition (eYRC)

RISC conducted a guidance session about how to participate in the competition and how to approach problem statements. Last year, 10 teams participated from our college, out of which one team was able to clear the second round and ended up in top 25 among all teams from the country.



Robot Automation Workshop

An online workshop to provide students with concepts and information about robots and the automation process and its industrial application. As robotics is an interdisciplinary field, so many concepts related to electronics, mechanical and computational algorithms were discussed.

ROS Workshop

An offline workshop on ROS to help students with the basic functionalities of ROS and how to proceed ahead in automation with ROS.

Open Projects

To encourage students of our Institute in the domain of robotics, we have floated few projects. As the name suggests, these projects were open to all. So, anybody could participate in it and bring their ideas to life.



Yanthrix

Yanthrix is an event organized by R.I.S.C as a part of Wissenaire (Tech fest of IITBBS). We organized a variety of competitions including RoboWar, RoboSoccer, RoboRace, Maze-solver, and Line-Follower. These competitions saw huge and enthusiastic participation from various colleges.



Ansys Workshop

An offline workshop on Ansys to help students with the basic functionalities of Ansys and how to proceed ahead in analysis of materials.

Inter IIT Tech Meet 11.0

This time, our team participated in the PS-2 of the competition in which we had to track and control a drone autonomously. Despite resource constraints, our team worked really hard and performed really well. We missed the bronze medal by very thin margin.



Arduino workshop

Arduino workshop was organized for the 1st year students to introduce them to the world of robotics. We made the hardware components available to the students so that they can have hands-on experience with robotics stuff, and they performed the tasks along with the workshop.



Robotics Exhibition by RISC as a part of G20 events

We organized a Robotics Exhibition as a part of the G20 exhibitions on 15th and 16th April 2023. It was a showcase of some of the interesting projects our society had been working on, which included FPV drones with VR goggles, Arduino games, obstacle avoiding bot, Crypto Trackers, etc.



Nakshatra-The Astronomy Society RAPERIO STELLA (Stargazing session)

Our college organized a stargazing event in collaboration with Alma fiesta that was an absolute hit among the student body. It was an initiative to promote astronomy among students and encourage them to develop an interest in the subject.

Guest talks (Online Event)

Dr. Abhijit Chavda delivered an enlightening talk on "why science is critical to progress". He shared his vast experience in the field of science, and why it is crucial for individuals and societies to invest in and promote scientific research.

Observational Astrophysics workshop

Nakshatra IITBBS in collaboration with Naxxatra sciences, a project based company for helping students understand the various aspects of astronomy including modern methods of Computational Astrophysics and Spectroscopy showed the very trending and exciting development in the field of science ,the James Webb Space Telescope (JWST) and the thrilling results it has broughtin.

Stargazing Session

Nakshatra, the Astronomy Society of IIT Bhubaneswar, invited all the members of IIT Bhubaneshwar to witness the event with us. The event was honoured by Dr. Ajit Srivastava, IOP BBS, Dr.P.V. Satyam, Dean SA and Dr. Srinivas Karanki, President, SG who shared the excitement and made it memorable. Ajit sir mentioned Astrophysics importance in today's technical scenario and encouraged students to come forward and prove their mettle in these fields too.





Appolo N Artemis

This is competition based on very popular simulator application SpaceFlight stimulator .It allows you to build your own rocket and do Space machine easily without any personal experience.

Across the stars (Astronomy Quiz)

Nakshatra, in collaboration with Quiz society, conducted an astronomy quiz competition to promote knowledge and interest in astronomy among students. Participants were tested on their knowledge of the solar system, stars, galaxies, and other astronomical phenomena. The questions were designed to challenge and engage participants and to encourage them to learn more about the fascinating world of astronomy.

GC (General Championship)

We held three competitions. Observational astronomy, Astrothinking, and Astrophotography Students from all branches enthusiastically participated in these GC events.

NSSC

Our students participated in the NSSC event held at IIT Kharagpur, where they were part of a team that built a water pressurized rocket. The team successfully launched the rocket to a distance of 78m and secured the 5th position among 300 participating teams.

Society of Finance, Economics and Business

FEBS (The Society of Finance, Economics and Business) has conducted events, competitions, and initiatives to promote financial, economic, and business literacy among students. This report summarizes the various events and initiatives undertaken by FEBS during the academic year 2022-2023.

Career Opportunities in Finance session

A talk with Mr. Nawaz NM, incoming market analyst at Futures First on MS Teams.

A Session with Karthik Rangappa

The session was taken on Technical analysis of the Stock Market by Mr. Karthik Rangappa, Educator at Zerodha Varsity.

Macroeconomics Bootcamp

It was a five-day long economics boot camp organized to help students learn about the Macroeconomics Bootcamp.

The Business Quiz:

This Quiz was conducted on Unacademy in association with the Quiz Society by Quiz Master Ravi Handa.

Investo

This was an offline trading competition as a part of TechZephyr - a week-long series of Technical Events.





Bizpitch

This event was conducted as a part of multiple events on World Entrepreneurs Day. This event was organized in collaboration with E-Cell and E-Summit, where participants could share their intriguing business ideas.

Session on Entrepreneurship

The session was taken by Ms. Ridhima Arora (Author, Founder and Director of Namhya Foods) on MS Teams. The session was to create awareness about Entrepreneurship, Innovation and Leadership. The talk was conducted in collaboration with E-Cell and E-Summit.

Funance

This was Finance related competition conducted on Unstop. It was a two round competition with a prize pool of 1300 and merit certificate for top 5 participants.

Webinar on Data Science

It was an introductory Data Science session by Mr. Kushagra Mishra (Senior Data Scientist at Akamai Technologies) on MS Teams.

Bootcamp on Technical Analysis

It was a week-long bootcamp on Technical Analysis of the Stock Market.

Mock Trading Comp

This was a trading championship conducted in association with StockGro.

Webinar on Personal Finance

This webinar was taken by Shristi Jain (Chief Product Officer, Finology) on MS Teams. The talk was aimed at creating awareness on Personal Finance and Money Management.

Talk with Mr. Anil Bhasin

This was an offline guest talk conducted at the concluding ceremony of TechZephyr. Mr. Anil Bhasin (Author and former President of Havells India Ltd.) was the guest for the event. The talk revolved around Startup, Business and Corporate life.



Bootcamp on basics of F, E and B

A bootcamp on basics of Finance, Economics and Business was conducted in the month of December, 2022.

Session on basics of stock market

This was an online session on "Why you should get started young and early? The session was taken by CA Nishant Kumar where certificate of participation was also given.

DSF Session 1

This was the first session taken as a part of creating a Data Science culture in the Institute.

Competition- The economic showdown

This was an economics related two round competition conducted on UnStop. The first round was Quiz Based and the second round was a case study competition. The participation and merit certificates were also given.

Session on Algo Trading

This was an online session on Algorithmic Trading by Mr. Mayank Rasu, founder of Rasuquant Ltd.

DSF Session 2

This was the second session taken as a part of creating a Data Science culture in the Institute.

Session on CAT/MBA prep - ISB

This was an offline session conducted by the Indian School of Business for pre-final and final year students. The session introduced the Young Leadership Programme mode of admission to ISB.

DSF Session 3

This was the third session taken as a part of creating a Data Science culture in the Institute.

Strategy Wars

This case study-based competition was conducted as a part of General Championship 2023.

Bootcamp on F&E ratios

A boot camp on Financial and Economics ratios was conducted to help students learn about the essential ratios used in Financial and Economic analysis.

Some other initiatives taken by FEBS

Step Zero - An initiative by FEBS to promote entrepreneurship culture Data Science Forum - An initiative by FEBS to promote data science culture

Bootcamp on F&E ratios

A boot camp on Financial and Economics ratios was conducted to help students learn about the essential ratios used in Financial and Economic analysis.

Pitchers & Obstructors

This was a competition conducted as a part of General Championship 2023, were each branch participated with four individuals, two of which were pitchers and the other two obstructors.





Events and Competitions

Tech Council Guidance Session on 10 May 2022

A general guidance about both web and design was provided to the people of college.

Web dev workshop on 20 May 2022

A workshop was conducted on basics of Web Development - HTML, CSS and Javascript for 1st year BTech students.

Tech Council logo competition on 27 May 2022

Participants had to make an original logo for the Technical

CodeRelay 1.0 - annual flagship hackathon of WebnD on 27 August 2022

CodeRelay was an effort from our side to conduct a first of its kind all India hackathon for increasing our outreach activity. The competition lasted for 4 days in collaboration with HackOdisha, NIT Rourkela and evaluated participants' proficiency with web technologies by having them address real-world problems. With 1574 individuals registered for the competition, it attracted a massive amount of involvement

Council through any medium of artwork. The winning entry was selected as the official logo of the Technical Council.

Design workshop on 4 July 2022

Workshop on design to help people understand the fundamental principles of graphic design: image making, typography, composition, working with color and shape and much more.

Design competition on 6 July 2022

A competition based on the learnings of the above mentioned design workshop.



Introduction to UI/UX Design session on 28 October 2022:

An introductory session on UI/UX design to help students understand the user experience and journey to create an appealing design to make their apps and websites more attractive and user friendly.

UXtivity competition (as part of TechZephyr) on 10 November 2022

An exciting competition on UI/UX Design "UXtivity" was held online as a part of TechZephyr, where anyone could solve cases and come up with innovative solutions using design! It was an individual online competition to test out your design skills

Offline workshop on Blockchain and Web3 in collaboration with Solana on 13 November 2022

We collaborated with one of the leading blockchains of the world, Solana, to provide an offline hands-on workshop for the students of IIT Bhubaneswar.

Intro to web session in offline mode (for '22 batch) on 30 November 2022

An offline session on web development to uplift the skills and help freshers to create attractive and responsive websites. For beginners, this session had given an essence of HTML, CSS, JavaScript and basic frontend and backend technologies.

Intro to design session in offline mode (for '22 batch) on 2 December 2022

Workshop on Introduction to Design to help freshers understand the meaning behind every beautiful design, and kickstart their designing journey by learning its fundamental principles.

4 Day Web development bootcamp in online mode on 16 December 2022

A 4-day long online development bootcamp for guidance on web development basics. The boot camp consisted of 4 learning sessions covering various technologies involved in web development, along with timely assessment tests and doubt clarification. The bootcamp was open to all freshers and had no prerequisites.

Webinar on Into the Web3 Metaverse (in collab with Lumos Labs) on 7 February 2023

An introductory session on Blockchain, Crypto, NFTs, DAOs etc in collaboration with LUMOS LABS.

Projects

Gymkhana website modified and updated

The Students' Gymkhana webpage (https://gymkhana. iitbbs.ac.in) was modified and updated.



Hostel Management Portal

A one stop solution for all the hostel complaints with several features was made and implemented for all the hostels. (https://hmp.webnd-iitbbs.org).



Local OLX website

One stop solution for all campus residents to buy and sell second hand items easily.



GC'23 Android & iOS App

An app made for registering and viewing all the live updates of General Championship '23 was developed in collaboration with Neuromancers.

Oracle - Journalism Body website maintenance and updates

The website for Oracle (https://www.oracleiitbbs.in/) -The Journalism Body of IIT Bhubaneswar was modified and updated from time to time with latest articles and updates.



Sports Council

Inter Institute Matches

The teams of IIT Bhubaneswar played a number of Inter Institute Matches with the colleges around Bhubaneswar. This helped in improving the performance and team building of our teams as they have faced a number of strong opponents, as a result we have performed really well in the 55th Inter IIT Sports Meet and other local Tournaments.

1)BADMINTON: IIT BBS VS NISER

Date: 22nd May, 2022 Venue: NISER Final Score : IIT BBS (5) - (2) NISER



2)FOOTBALL: IIT BBS VS NISER

Date: 7th August, 2022 Venue: NISER Football Ground Final Score : IIT BBS (4) - (5) NISER



IIT BBS vs MKCG

Date: 10th March, 2023 Venue: AIIMS Football Ground Final Score : IIT BBS (1) - (1) MKCG



3)TABLE TENNIS

JJB Railway Institute TT Championship 2022

Date: 09-08-2022

Venue: Railway Institute, Jatni, Odisha Results:

- Pranjali Nema stood second in women's singles category.
- G. Bhavya Sri got fourth position in women's singles category.
- Jatin Sahu reached Top-8 in men's singles category.



IIT BBS vs AIIMS:

Date: 25-09-2022 Venue: SAC, IIT Bhubaneswar Final Score : IIT BBS (3) - (1) AIIMS



4)BASKETBALL: IIT BBS vs Mother's Public School

Date: 27-08-2022

Venue: Mother's Public School

Results :Boys: Mothers Public School (69) - (63) IIT BBS Girls: Mothers Public School (46) - (30) IIT BBS



5)VOLLEYBALL: AIIMS CHIASMA Tournament

Date: 9th -10th March. 2023 Venue: AIIMS Bhubaneswar Result : IIT BBS Girls Team won the tournament IIT BBS Boys Team Lost in the Semi Finals

IIT BBS vs Mother's Public School

Date: 03-09-2022 Venue: IIT Bhubaneswar Results :Boys: Mothers Public School (81) - (71) IIT BBS Girls: Mothers Public School (59) - (30) IIT BBS







ASHVAMEDHA

- Ashvamedha, the Annual Sports Fest of IIT Bhubaneswar, after a gap of almost 3 years, was conducted successfully from the 5th to 6th November 2022
- IIT Bhubaneswar hosted 6 sports, which are Football, Volleyball, Basketball, Badminton, Table Tennis, Chess in a short span of 2 days
- Around 700+ footfall was witnessed in the fest, a total 13 teams of Bhubaneswar and nearby regions like AIIMS, NISER, CV Raman, SOA, BGU, IIIT, Centurion, etc. participated in the tournament.

AllMS Bhubaneswar won the overall championship.





55th Inter IIT Sports Meet

- The 55th Inter IIT Sports Meet was held in IIT Delhi and IIT Roorkee from the 14th to 22nd December 2022.
- IIT Bhubaneswar participated in 9 sports with a contingent size of 114 students.
- IIT Bhubaneswar secured an overall 10th rank among 23 IITs with overall 13.16 points
- The Football team and the Table Tennis Girls Team secured 4th position in the Inter IIT among 23 IITs.



1)VOLLEYBALL

Date: 14th - 22nd December 2022

Venue: IIT Roorkee

Result: The Volleyball Girls Team reached the Quarter Finals. The Volleyball Boys Team reached the Pre Quarters.



2)FOOTBALL

Date: 14th - 22nd December 2022

Venue: IIT Roorkee

Result : The Football team achieved 4th position among 23 IITs and gained 2 points for IIT Bhubaneswar in the overall championship tally



3)TABLE TENNIS

Date: 14th - 22nd December 2022 Venue: IIT Delhi

Result: The Table Tennis Girls team achieved 4th position among 23 IITs and gained 2 points for IIT Bhubaneswar in the overall championship tally. The Table Tennis Boys team was not able to qualify the league stage.



4)LAWN TENNIS

Date: 14th - 22nd December 2022

Venue: IIT Delhi

Result: The Lawn Tennis Boys Team was not able to qualify the League Stage.



6)BADMINTON

Date: 14th – 22nd December 2022

Venue: IIT Delhi

Result: The Girls Badminton team was not able to qualify the league stage. The Boys Badminton team reached the Pre-Quarter Finals.



8)CRICKET

Date: 14th - 22nd December 2022

Venue: IIT Roorkee

Result: The Cricket team reached Pre-Quarter Finals in the Inter IIT.



5)CHESS

Date: 14th - 22nd December 2022 Venue: IIT Delhi Result: IIT Bhubaneswar Chess Team got an overall 13th Rank.



7)BASKETBALL

Date: 14th - 22nd December 2022

Venue: IIT Delhi

Result: The Girls Basketball team reached Pre-Quarter Finals. The Boys Basketball team was not able to qualify the league stage.



9)ATHLETICS

Date: 14th - 22nd December 2022 Venue: IIT Delhi

Result: The Cricket team reached Pre-Quarter Finals in the Inter IIT.





General Championship

- The General Championship was the most lively event during the Spring Semester at IIT Bhubaneswar.
- A total of 8 branches competed very hard throughout this month-long General Championship to reach the top of the points table.
- 13 Sports were conducted with an approx. participation of 700 students.

1) CHESS

Date: 18th - 19th March, 2023 Venue: SES Result : 1st - CSE, 2nd - PhD, 3rd - ECE - Meta



2)CRICKET

Date: 18th March - 7th April, 2023 Venue: MHR Ground Result : 1st - CSE, 2nd - PhD, 3rd - ECE - Meta



3) BADMINTON

Date: 14th - 23rd March, 2023 Venue: Badminton Courts, SAC Result : 1st - Electrical, 2nd - Mechanical 3rd - ECE -Meta



4) TABLE TENNIS

Date: 14th - 23rd March, 2023 Venue: TT Tables, SAC Result : 1st - Civil,2nd - CSE, 3rd - M.Tech



5) VOLLEYBALL

Date: 13th - 26th March, 2023

Venue: Volleyball Courts, SAC

Result: Boys-1st - CSE, 2nd - ECE-Meta, 3rd - Electrical. Girls-1st - Mechanical, 2nd - ECE-Meta, 3rd - CSE



6)BASKETBALL

Date: 13th - 23rd March Venue: Basketball Courts, SAC

Result: Boys 1st - M.Tech, 2nd - CSE, 3rd - Civil. Girls-1st - Electrical, 2nd - CSE, 3rd - ECE-Meta

7) FOOTBALL

Date: 12th March - 2nd April, 2023

Venue: Football Ground, SAC

Result : Boys-1st - Electrical, 2nd - Mechanical, 3rd - M.Tech, Girls 1st - M.Sc, 2nd - Mechanical, 3rd - ECE-Meta





8)THROWBALL

Date: 27th - 31st March Venue: Volleyball Courts, SAC Result: Boys 1st - Electrical, 2nd - Civil, 3rd - CSE Girls 1st - ECE-Meta, 2nd - Civil, 3rd - CSE



9) LAWN TENNIS

Date: 27th - 31st March Venue: Tennis Courts, SAC Result : 1st- Mechanical, 2nd - ECE-Meta 3rd - CSE



10)TUG OF WAR

Date: 30th - 31st March, 2023

Venue: MHR Ground

Result : Boys 1st - Electrical, 2nd - M.Tech, 3rd - CSE, Girls 1st - M.Sc, 2nd - Civil, 3rd - Electrical





11) KHO KHO

Date: 31st March - 8th April, 2023

Venue: MHR Ground

Result : Boys 1st – Electrical, 2nd – M.Tech, 3rd – CSE, Girls 1st – M.Sc, 2nd – Civil, 3rd – Electrical 12)GYM & WEIGHTLIFTING

Date: 6th - 15th March, 2023

Venue: SAC Gym

Events Conducted: Plank, Push-Ups, Squat, Deadlift, Bench Press





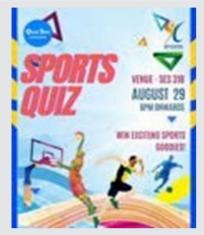
13) ATHLETICS

Date: 4th - 24th March, 2023

Venue: SAC Area

Events Conducted : 100m, 200m, 400m, 4x100m, Discuss, Javelin, Shot Put, Cross Campus Duathlon, Standing Jump, Long Jump.





Other Events SPORTS QUIZ

Date: 29-09-2022 (National Sports Day)

Venue: SES, IIT Bhubaneswar

Participation: 16 teams (each team of 3) amounting to nearly 40 students

Results : 1st - Aayush Gahan, Prathamesh Patil and Viraj Rodge, 2nd- Vedanta Mohapatra, Hrushikesh Joshi and Akshitha Yedla, 3rd - Soumyajit Acharyya, Dattatreya Biswas and Sabyasachi Jana

Inter Year Tournament

1)Football

Date: 24th and 25th September, 2022

Venue: SAC Football Ground

Participation: 5 teams (each team of 16) amounting to nearly 80 students

Results : 1st - B.tech 3rd year, 2nd - Phd+DD+Faculty 3rd -Masters+M.Sc



2)Volleyball

Date: 25th September, 2022

Venue: SAC Volleyball Courts

Participation : 6 teams (each team of 12) amounting to nearly 72 students Results : 1st- M.Tech + M.Sc 2nd Year, 2nd - PhD, 3rd - B.Tech 3rd Year



3)Cricket

Date: 3rd September, 2022

Venue: MHR Ground

Participation: 8 teams (each team of 16) amounting to nearly 128 students

Results : 1st -PhD, 2nd-M.Tech 1st Year, 3rd-B.Tech 4th Year

CHESS WORKSHOP

Date: 21st - 22nd January, 2023

Venue: SES

Participation : 50+ players participated



Staff GC Chess Tournament

Date: 25th March - 1st April, 2023 Venue: SAC Participation: 14 players participated Result: 1st- Dr. Sasidhar Kondaraju, 2nd - Dr. D Swain 3rd - Dr. Anoop Thomas





Chesslers Tournament

Date: 4th February, 2023 Venue: Online Lichess Arena Participation : 65 players participated



Staff GC Carrom Tournament

Date: 2nd April, 2023 Venue: SAC

Participation: 32 players participated

Result: Singles 1st-Alok Sahoo, 2nd-Soumya Prakash Dash 3rd - Budhadeb Kanhar, Doubles 1s - Dr.Mihir Kumar Das and Dr.Srinivasa Ramanujam Kannan 2nd- Guru Prasad Sahoo and Amiya Ranjan Swain, 3rd- Vikram Alagandula and Arup Kumar Pandab





G20 Cyclothon Event

Date: 1st April, 2023

Venue: IIT BBS Main Gate to Khurda Station Participation : 150+ participants



G20 Volleyball Tournament

Date: 15th–16th April, 2023

Venue: Volleyball Courts, SAC

Participation: 6 Teams (each team of 12 players), with a total of 72 players

Results : 1st - IIT BBS Team A, 2nd - Silicon, 3rd - IIT BBS Team B



VOLLEYBALL TOURNAMENT INTERNATIONAL

G20 Football Tournament

Date: 15th - 16th April, 2023 Venue: Football Ground, SAC

Participation: 6 Teams (each team of 16 players), with a total of 96 players

Results : 1st- IIT BBS Team A, 2nd - CV Raman, 3rd - IIT BBS Team B





Socio-Cultural Council

Quiz Society

Introduction

The following report shall document all activities of the Quiz Society, IIT Bhubaneswar, for the term 2022-23. Myriad as they were, the QuizSoc conducted a plethora of events; some of the most notable ones include "Que Sera Sera", our flagship event, the collab quiz with NISER and the 3 quizzes in association with our fests, among many others. Post the pandemic, we saw a tremendous jump in our participation as well, with the prime examples being our presence at Inter-IIT Cult Meet and quizzes in and around Odisha.

The term 2022-23 saw Adarsh Kumar Taria as the Secretary, with Aayush Gahan, Vedanta Mohapatra and Akshitha Yedla as Governors.

Akshitha Yedla as Governors. Events Conducted - Autumn Semester

The QuizSoc conducted a huge number of events in the past year. The report shall briefly touch on each of these events and reflect on the gradual restoration of the quizzing culture in Bhubaneswar.

Que Sera Sera

The flagship event of the Quiz Society, Que Serà Serà, was conducted as a part of Litspree 2022, with Dr Nandadyuti Acharya invited as the Quiz master. The event saw over 60 participants, with teams coming in from colleges all over



QM Prathamesh Patil hosting the IIT BBS X NISER Quiz

Odisha. Two teams from IIT Bhubaneswar qualified for the finals, with the apex position being bagged by IISER Berhampur.

GC Quizzes - General, Sports and MELA

The GC quizzes are one of those rare moments when the entire campus sets out to become overnight quizzers. We conducted three quizzes as part of the General Championship 2023, namely, General, sports and MELA quiz. Each of these were assigned a different set of organisers, with the point-of-contacts being Adarsh Kumar Taria, Viraj Rodge and Rithika Reddy.



G20 India Quiz

The final of our endeavours in the term 2022-23, the G20 India Quiz, was part of a multitude of events organised by the Institute. We organised 2 quizzes, one for college students and one for school students. A vast number of students were in attendance from schools in and around Bhubaneswar, such as KVs, ODM, Loyola, etc.





QM Subham Badpanda, explaining the rules to

Prelims, hosted by QM Adarsh Kumar

Souls for Solace

Cleanliness and Plantation Drive (in collaboration with UBA)

Date – 5th JUNE

- Occasion World Environment Day
- Participants Society members, UBA members
- Location Kanspada village



Flag Distributions and Awareness regarding it

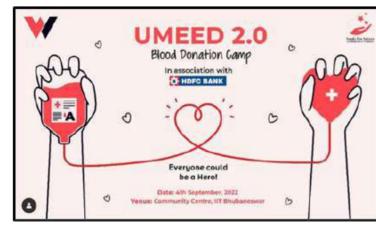
Date – 15th AUGUST

- Occasion -INDEPENDENCE DAY
- Special Flags having Tulsi seeds ingrained in it
- Were distributed to faculty members and students.
- Video on "how to properly dispose
- Indian flags" were posted from social media handles.



UMEED 2.0 - The blood donation camp (in collaboration with Wissenaire)

- Date 4th September
- No. of Donors 220





Career Guidance Session for Sos Children Village (Orphanage)

- Date -16th October 2022
- Venue Bhubaneswar
- No. of volunteers 15

Event details-:

- Career guidance session for class 8th, 9th and 10th Students.
- Drawing competition for 5TH 6TH 7TH Students.
- PPT were prepared and given by S4S Team
- Very good and positive response from students there.



Best Out of Plastic (Plastic art competition)

Date – 11th JULY Occasion – Ban on single use plastic Participants –Open event No. of participation – 15

Children's Fest - "Bachpan Ka Rangmanch"

Orphan Kids from Four Orphanages were called to campus and a whole day was made full of fun by having lunch for them, refreshments and many gifts were given to them.

Date: 21/01/2023 No. of children's: 132









The Fourth Wall Report

The following report shall document all activities of the THE FOURTH WALL Society, IIT Bhubaneswar, for the term 2022-23. In this term also our society have achieved greater heights by participating in plethora of events as well as winning them. Also other organizations specially wanted us to perform for them and we even performed for NIT Rourkela, ISCKON, Bhaktivedanta.

The term 2022-23 saw Ayush Kumar as the Secretary with Dhananjay Singh, Mayank Sawarna & Ojasvv Gupta as Governors.

Inter Society Monologue Practice

An inter-society monologue Practice cum Competition was organized on 16 May 2022 and all the members in groups of 4 have to perform monologues. It was an idea to increase the teamwork among the members and also to develop their acting skills.



KATPUTTALI SHOW

This was performed on Diwali night in collaboration with Kalakriti(The Fine Arts Society).The puppet show was about "Chintu ki Diwali".This was done by students and was posted on instagram.

SHADOW ACT

Shri Krishna made an indelible impression upon mankind's collective consciousness- re-educating the world about devotion and dharma as well as the ultimate reality. So we tried to make people aware of Shri Krishna life through a shadow act.





GC MONOLOGUE COMPETITION

General championship is one of the important inter branch competitions in our institute. On this day our society organised a monoact competition which was very successful. A lot of students took part in this competition.

Secured 8th position in stage play,10th and 12th positions for in monologue at inter IIT.

- 1. NIT Rourkela invited us in their college after seeing our shadow act on Krishna Janma.
- 2. Won 1st prize in mime competition at AIIMS Bhubaneswar.
- Won 1st prize in Hindi Monologue competition by Anushka Meena conducted by Hindi Rajyabhasa & Hindi Pakhwada.
- Amogh lila prabhu himself applauded us for our shadow act & have invited us to perform for ISCKON Bhubaneswar.





Abhivyakti Report

Events and Competitions

HINDI PAKHWADA

Hindi Monologue Competition: Hindi Monologue competition was organized by Abhivyakti, Hindi Literary

Society of IIT Bhubaneswar in collaboration with The Fourth Wall, Dramatics Society of IIT Bhubaneswar. It was an online competition where students showcased their acting as well as dialogue delivery skills.

- Occasion- Hindi Pakhwada
- Number of Participants-17 (Across nation)
- Participation-All

Winners:

- 1. Anushka Meena (IIT Bhubanesawr)
- 2. Ravindra yadav (Utsah Foundation)
- 3. Riya Gupta (IIT GUWAHATI)
- 4. Nisha Gupta (Institute of company secretary of India (ICSI))



Drishtikon Lekhan: Creative Writing competition was organized by Abhivyakti, Hindi Literary Society of IIT Bhubaneswar. Students expressed their views and wrote some amazing pieces.

- Occasion-Hindi Pakhwada
- Number of Participants-22 (Across nation)
- Participation-All

Winners:

- Digen Kumar (IIT Bhubanesawr) 1
- 2. Lokesh Sharma (IIT Bhubanesawr)
- 3. Prashant Mittal (Indian Institute of Technology, Ropar)



Kavyanjali: Kavi Sammelan was organized by Abhivyakti, Hindi Literary Society of IIT Bhubaneswar where four famous poets were invited across the nation.

- Venue: Community Centre.
- Occasion-Hindi Pakhwada
- Name of Poets:
 - Azahar lqbal _
 - Sudeep Bhola
 - Manisha Shukla
 - Utkarsh Agnihotri
 - Host Dr. Rajeev Rawat

- **Event-Students**
- Reach-200+







LITSPREE

Lok Sabha: One-Day Mock Parliament was organized by the Literary Society. Students took up the role of various members of Lok Sabha and presented their views.

- Occasion-LITSpree .
- Number of Participants-50
- Participation-open to ALL





Kavyoday: National Level Slam Poetry competition was organized by Abhivyakti, Hindi Literary Society of IIT Bhubaneswar. It was an online competition where students showcased their writing skills and expressed their ideas through poetry.

- Occasion- Alma Fiesta
- Number of Participants- 21 Across nation)
- Participation-ALL

Winners:

- 1. 1st Aryant Tripathi
- 2. 2nd katyayni (AIIMS Bhubaneswar)
- 3. 3rd Kavya Singh (IIM Rohtak)
- 4. 3rd Kumar Utkarsh (IIT Bhubaneswar)



Essay Writing: Hindi and Odia Essay Writing competitions were organized by Abhivyakti, Hindi Literary Society of IIT Bhubaneswar. Many school and college students from Odisha participated in the competitions.

- Occasion-G20
- Number of Participants- 50
- Participation-Students



Elocution: Hindi and Odia Elocution competitions were organized by Abhivyakti, Hindi Literary Society of IIT Bhubaneswar. Many school and college students from Odisha participated in the competitions.

- Occasion-G20
- Number of Participants-25
- Participation-Students

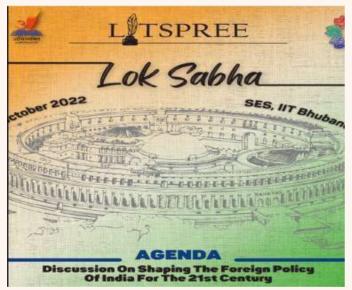


PANACEA Organization Of Events:

In the session of 2022-2023, numerous literary events were organized over various genres. These events not only ensured massive participation but also made society reach new heights. The details of each event are as follows:-

1.Events conducted during LITSPREE 3.0

LOK SABHA: The flagship event of this third edition of the literary festival was organized in collaboration with "Abhivyakti the Hindi Literary Society. In its first offline edition only, we received more than 50 registrations and participants from NISER, KIIT, and Ravenshaw University. Participants from Delhi and Kolkata even attended the event.



MILORD: This was one of a kind online debating event, which saw more than 20 registrations. Participants came from reputed institutes like IIT Patna and IIT Ropar. The judge for the event was Dr. Amrita Satapathy.



PICTURESQUE: This was a creative writing contest that was organized for the first time in the institute. We saw good participation from M.Tech and Ph.D. students. The judge for the event was Shraddha Jha and Akshitha Yedla.



WORDOKU: For the first time in our institute, an event on word games was organized. Participants enjoyed this fun-filled event as this event made them test their vocabulary and quick-thinking skills.



Literary events conducted during General Championship 2023

- Asian Parliamentary Debate: Asian Parliamentary Debate grabbed the most attention because of its most heated debate format. Each branch had sent its 1 team. And 3 teams could make it into the final rounds.
- Just A Minute: This interesting event was the first event of GC 2023. The participants had to speak on the given topic for 60 seconds without hesitation or deviation.

Seeing the level of word games played at the level of Inter-IIT Cultural Meet, for the first time word games were introduced in General Championship 2023.

- **Scrabble:** It is a fun word game played by players of different teams to become the Scrabble champion. The games were held on physical boards.
- **Potpourri-**The sacred word games event of GC'23. The players put on their literary skills to the test in this word games event. It was completed in 2 rounds-Preliminary and final.

Literary events conducted in collaboration with Alma Fiesta'23-

- **Block and Tackle** Block and Tackle is a new twist added to the conventional form of debating.
- **Metamorphosis** The participants showcased their creativity by updating a character in the past and placing him in the modern world to invent a new and exciting life.
- **Vocab-Clash-** An intellectually stimulating word game, in a highly competitive environment to test out the word skills and general knowledge of participants.
- **Debattle-** The debates were held on online grounds and were in a 2v2 format.

Literary events conducted for G20 Jan Bhagidari-

- Essay writing competition- An essay writing competition was held which saw participation from more than 200 students from schools and colleges in and around Bhubaneswar.
- **Elocution-** An elocution competition was conducted for which topics for school students were given

beforehand while college students were given topics on the spot. More than 50 students took part in the event.

• **Model G20-** A Model G20 event was conducted for the first time in our institute, chaired by an executive board that is renowned in the Odisha circuit, and a total of 35 participants from various colleges such as KIIT, ITER, AIIMS, SIT, etc.

BOOK CLUB: The first set of books were procured from the library, and intra-society meets were held related to book club and story session. A list of books has been submitted via the Faculty Advisor Social-Cultural Council and the remaining books from the list will be procured in the upcoming semester.

1. Research Paper Writing & Presentation Workshop: More than 400 participants turned up for the workshop with students from our institute, NISER, and other institutes all over India. The speaker for the session was Ms. Neha Aggrawal, who is the founder of WiseUp Communication and an alumnus of NTU Singapore.



2. MUN Workshop: With more than 80 participants, the workshop was in collaboration with Utkrishta MUN. The speaker of the workshop was Mr. Abhijeet Panda, who is an experienced MUN'er and currently pursuing a Master's in International Affairs. He joined the session all the way from Germany.

Another MUN workshop collaboration was from SSUI MUN which happened in offline mode. The Secretariat of SSUIMUN took the workshop, and around 30 students joined the workshop and came to know about the functioning of MUN.



KALAKRITI

Swap Challenge: A Painting Competition in Collaboration with Bhaktivedanta Institute Theme: Janmashtami Total Number Of Teams:24 **Rangoli Competition for Diwali Theme:** Diwali Total number of Teams:22 teams Total number of Participants: 88

Pixel Art

General Art Competition: An Art Competition was conducted on the Occasion of Women's Day. Theme: Role of Women in Modern India Total Number Of Participants:15





ON THE OCCASION OF INTERNATIONAL WOMEN'S DAY KALAKRITI & WWC PRESENT GENERAL

ART COMPETITON

Prizes worth

Rs.3000

4th March 2023 Venue : LBC 302 2pm to 5pm **Inktober:** It is a Global Challenge for Artists to Make Artwork Based on Given Prompts Every Day of the Month of October.



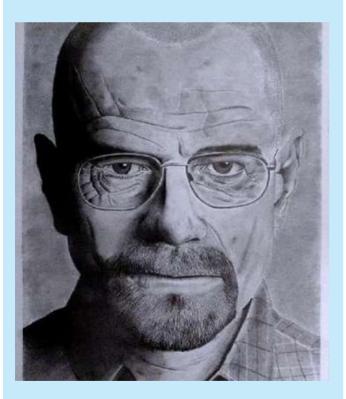
Social Media Posts

G20 Face Painting: Conducted a Face Painting Competition for College Students of Three Districts as a Part of G20 Events.

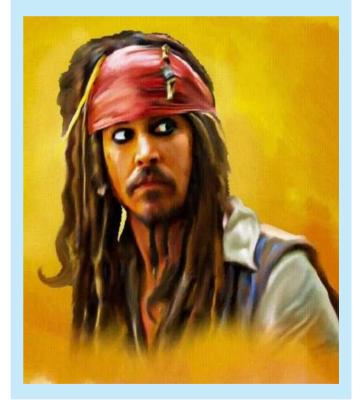
- Theme: Emotions & Nature
- Total Number Of Participants:15



Sketching Post



Digital Art Post



Painting Post







CINEWAVE: The Filmmaking Society

•

YouTube Post:

- **Farewell video:** Cinewave made a farewell video for the class of 2022 and upload it on its YouTube channel.
- **Silent Short Film:** Cinewave posted the silent short film 'UMMEED' on its YouTube channel.



Freshers Introduction video: Freshers Introduction video was made and posted on YouTube channel of Cinewave.



 Inter IIT Short film: 2 Short films "Clean your own mess" and "Invisible Courage" were uploaded on YouTube made by Cinewave for inter IIT cultural meet 5.0.



GC event's winning videos: Cinewave uploaded the short film "Arjuna" which was winner of the GC short film competition. Cinewave also uploaded "Maple ear dopes" ad which was winner of the GC ad making contest.



Colorpalate: Cinewave posted 5 posts of Colorpalate on Instagram.



• **Convocation Video:** Cinewave made convocation video for class of 2022.



Instagram Post:

- Poster for video-making competition: Cinewave released a poster for video making competition conducted by cinewave for all the students.
- Video for weekly insta post: Cinewave posted an event opener video for its weekly insta post on Instagram



Tuesday trivia: Cinewave posted 5 posts of Tuesday trivia on Instagram.



Freshers intro teaser: Cinewave made a teaser for fresher's introduction video and uploaded on Instagram.



GC After movie: Cinewave made after movie covering all the GC events.





D-GANG

Independence Day Productions: A 15-minutes long performance was put up on the account of the 75th Independence Day.

Date: 15-08-2022



Janmashtami Performance: Classical dance forms in praise of Lord Krishna were performed by the members of D-Gang.

Date: 19-08-2022



Garba Workshop: A workshop on Garba, a Rajasthani folk dance was conducted on the account of Garba Night. Date: 27-09-2022



Diwali Productions: A power-packed performance was put up covering an epitome of dance forms. Date: 23-10-2022



Inter-IIT Cult Meet 5.0: The members of D-Gang participated in the 5th edition of Inter-IIT Cult Meet hosted by IIT Madras.

Participated in-

Group Dance Competition

- Team size: 21
- Secured 9th place out of 21 teams •

Duet Dance Competition

No. of teams: 2

.

Secured 19th and 21st place out of 38 teams

Dance Battle

Team size: 10

GC Dance Competitions



Performances

Being the first offline semester after COVID-19, many offline events and performances were done, with an excellent response. Musical Performance in a workshop conducted by the School of Basic Sciences. CC, 15/06/2022



Janmashtami: 2 Classical Rock fusion songs were performed. CC, 18/08/2022



Republic Day performance: Aaroh performed one song in CC. Date: 26/01/2023.



Independence Day Performance: It was one of the best performances of Aaroh ever. CC, 15/08/2022

ISTITUTE OF TECHNOLOGY BHUBANESWAR



Diwali productions: A passionate performance on the festival of lights. Date:23/10/2022



Alma opening: Alma Fiesta saw a beautiful beginning with a Carnatic performance.

Date: 24/03/2023



Sri Rama Navami performance: Aaroh members gave a brilliant classical performance on this auspicious day.

Date:30/03/2023



General championship events: March 7 and 22.

- Pair on stage competition.
- Solo singing competition.
- Antakshari.

Spring productions: One of the biggest events Aaroh has performed in.

Date: 11/04/2023



Society intros: Introduced Aaroh to the first years. Date: 12/01/2023



CLIX

Introduction: The following report showcases all the events, event coverage, workshops and various activities conducted by the photographic society of IIT Bhubaneswar.

Instagram Posts



A stunning picture of a bubbles by one of the clix members Ankit Patel posted on O6th June,2022.

A photo of Dinadhar Pradhan, cycle repairing mechanic of our institute was captured for @humans_iitbbs (Instagram page) on 10th August,2022.

dialdble - Follow



clix

Instagram post for the occasion of World Photography Day Instagram p on 19th August, 2022.photo captured by our secretary, Sri Fourth Wall. Mukhesh

Instagram post for 'Society Series' for the society, The Fourth Wall.

INTER IIT CULT MEET



Online Photography Competition - (25/12/22) -

Secured 7th position among 23 IITs.



Street Photography- (09th to 11th January, 2023) – Secured 3rd position among 23 IITs.



252

S. N.	RECEIPTS	CURRENT YEAR 2022-23	PREVIOUS YEAR 2021-22	s. N	PAYMENTS	CURRENT YEAR 2022-23	PREVIOUS YEAR 2021-22
<u></u>	Opening Balance			<u></u>	EXPENSES		
	a) Cash in Hand	1	1		a) Establishment Expenses	465,061,821.03	384,759,072.00
	b) Bank Balances				b) Academic Expenses	231,945,805.93	130,954,680.65
	i) In Current accounts				c) Administrative Expenses	59,589,181.00	36,658,625.00
	ii In deposit accounts				d) Transportation Expenses	1	48,602.00
	iii) In Savings accounts	216,257,516.41	153,864,635.18		e) Repairs & Maintenance	188,071.00	147,775.00
					f) Prior Period Expenses	6,785,500.00	1,510,469.51
					g) Finance Cost	44,328.21	75,995.25
					h) Expenses from IRG	6,690,417.00	1
=i	Grants Received			=	Payment against Earmarked/ Endowment Funds	1,650,837.00	5,249,344.00
	a) From Govt. of India	1,709,207,568.00	1,185,079,822.00				
	b) From State Government						
	c)From Other Sources(Details)						
	(Grants from Capital and Revenue expenses to be Shown Separately)						
=	Academic Receipts	359,977,182.00	323,719,159.10	≡	Payment against Sponsored Projects/ Schemes	351,927,937.33	277,373,961.39
≥	Receipts against Earmarked/ Endowment Funds :			≥	Payment against Sponsored Fellowships/ Scholarships		
	a)Earmarked/Endowment Fund	5,000,000.00					
	c)Own Funds (other Investment)						
>	Receipts against Sponsored Projects/ Schemes	164,952,921.01	327,991,913.25	>	Investments and Deposits made		
					a) Out of Earmarked/ Endowment funds		
					b) Out of Own funds (Investments - other)		
۲I.	Receipts against Sponsored Fellowships and Scholarships			Ľ	Term Deposits with Scheduled Banks	1,902,447,592.28	1,171,869,503.12
VII.	Income/receipt on Investment			.Π	Expenditure on Fixed Assets and Capital Wrok-in-Progress	397,932.00	
	a) Earmarked/ Endowment funds	1,760,513.90	33,405.00		a) Fixed Assets	12,915,521.00	4,630,527.38
	b) other Investments	249,932.00			b) Capital Works-in-Progress		10,000,000.00

Receipts and Payments Account for the Year Ended 31st March 2023

VIII.Intrest received ona) Bank depositsb) Loans and Advancesb) Loans and Advancesc) Savings Bank AccountsIX.IX.IN.IN.IN.IN.IN.IN.Other Income (including Institute	Intrest received on a) Bank deposits b) Loans and Advances c) Savings Bank Accounts c) Savings Bank Accounts Investments encashed Term Deposits wih Scheduled Banks encashed Other Income (including Prior Period Institute Hostel Receipt Hostel Receipt		>				
	s dvances Accounts ncashed wih Scheduled Banks (including Prior Period			VIII. s	Other Payments including statutory payments	887,981,629.34	739,822,607.42
	Vances Accounts ncashed wih Scheduled Banks (including Prior Period	2,873,126.20	19,205,855.55		Capital fund		
	Accounts nashed wih Scheduled Banks (including Prior Period			-	HEFA Loan	381,946,269.00	326,629,822.00
	ncashed wih Scheduled Banks (including Prior Period	1,036,992.00	1,294,884.00				
	wih Scheduled Banks (including Prior Period	I	1	×	Refunds of Grants		I
	wih Scheduled Banks (including Prior Period				Refunds of Grants	42,672,358.00	2,857.00
	wih Scheduled Banks (including Prior Period				Refund of Interest on Govt. Grants	22,984,798.66	
·	(including Prior Period	810,362,982.69	1,871,274,190.03	×	Deposits and Advances		7,471,847.00
Institute Hostel Receipt Receipt against Gymkhana Rece				X	Other Payments		
Hostel Receipt Receipt against Gymkhana Rece		6,352,282.49	4,096,300.34				
Receipt against Gymkhana Rece		101,827,122.04	65,851,343.50	-	Hostel	3,601,028.00	3,874,809.76
Gymkhana Rece	Receipt against Hostel Current Assets	32,470,000.00	1	-	Hostel Payment against Fixed Assets	2,147,745.00	884,754.00
	eipt	4,628,700.64	3,146,335.00		Hostel Payment against Current Liabilities	127,644,772.00	70,664,173.00
CEP Receipt		48,847,903.43	45,241,210.51		CEP Payment	47,096,537.27	45,178,505.78
Guest House Receipt	eceipt	4,949,473.36	851,680.00		Gymkhana payment	8,690,283.00	1,157,187.00
S K Bet Receipt		18,694,447.00	6,052,304.00		Guest House Payment	4,976,735.91	835,154.42
				0,	S K Bet Payment	18,687,858.00	6,052,251.00
XII. Deposits and Advances	dvances		49,359,162.25	×	Closing Balances		
				10	a) Cash in Hand		
XIII. Miscellaneous Rec Statutory Receipts	Miscellaneous Receipts including Statutory Receipts	236,389,472.51	190,179,905.48		b) Bank Balances		
					i) In Current accounts		
XIV Any Other Receipts	eipts				ii) In deposit accounts		
					iii) In Savings accounts	129,078,984.81	216,257,516.41
TOTAL		3,725,838,135.68	4,247,242,105.19		TOTAL	4,717,153,942.77	3,442,110,040.09

IIT Bhubaneswar

Registrar

INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR sponsored research and industrial consultancy

Statement of Receipt & Payments for The Financial Year 2022-23

RECEIPT		Amount (₹)
Opening Balance		30,560,858.86
Add: Receipt during the year		
Consultancy Project		36,304,971.36
Sponsored Research Project	83,437,126.06	
Less : refund	13,975,821.54	69,461,304.52
Sponsored Fellowship		4,579,022.00
Institute Overheads		19,063,797.17
Goods & Service Tax (GST)		10,850,096.04
Goods & Service Tax (GST) TDS		303,329.00
Performance Bank Guarantee (PBG)		496,536.00
Other Current Liability		470,254.25
Sundry Creditors		2,464,636.26
Security Deposit		134,119.00
PDF Application Fees		10,750.00
Workshop		161,260.70
Bank Interest		1,100,914.71
Interest on TDR		19,101,930.00
CEP Grant Receipt		450,000.00
Total Receipt		195,513,779.87

INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR SPONSORED RESEARCH AND INDUSTRIAL CONSULTANCY **Statement of Receipt & Payments for The Financial Year 2022-23**

Payments		Amount (₹)
FOR REVENUE EXPENSES		
Interest Paid		2,778,416.60
Deposits		1,834,194.88
Loan & advances		534,063.00
Debtor		4,408,658.93
Income Tax TDS		2,665,334.44
Salary to JRF/SRF and project Assistant		38,399,608.00
Contingencies		4,654,181.50
Recurring Expenses		1,567,485.00
Fellowship		7,142,134.00
Acqiation of fixed assets:-		
Equipment		40,526,119.00
Office Equipment		12,500.00
Furniture & Fixture		188,366.00
Software		708,000.00
Sample Preparation & Testing		14,868.00
Operation & Maintenance		5,449.00
Outsourcing Facility		253,889.0
R&D Recurring Expenses		2,522,063.0
Fee for Intelectual Assets		618,000.0
Startup & IPR Expenses		47,780.0
Duty & Taxes		556,856.0
Good and Service Tax		10,897,759.1
Stale Cheque		54,399.0
Depreciation		
Sundry Creditors		
Other Current Liability		
Liquidated Damages		542,775.00
culty Development Fund		623,158.00
chool Development Fund		333,005.0
ank Interest		· · · · · ·
cientific & Social Responsibility		164,709.00
cientific & Social Responsibility		1,281,229.00
Earnest Money Deposit (EMD)		220,000.00
zarnest Money Deposit (EMD) CEP Grant Payment		450,000.00
		4,154,551.4
SBI A/c-20054905156	4,226,729.52	
Syndicate Bank A/c-800721600000022	22,325.20	
SBI A/c No. 35052867155	103,801.00	
SBI A/c No. 38605214766	-4,404.30	
BOM A/c No. 60420734797	-97,000.00	
BOM A/c No. 60422783846	-96,900.00	
Canara Bank A/c No-110061428613		
HDFC A/c No. 50100496964969	_	
TOTAL PAYMENT		195,513,779.8

Representation of Scheduled Castes (SC), Scheduled Tribes (ST). Other Backward Classes (OBC), PwD and Minorities

Indian Institute of Technology of Bhubaneswar has recruited different reserved categories of positions of Faculty and Non-Teaching staff as per Govt. of India rules. The Institute also provides benefits to the above categories as per the provisions of the Govt. of India guidelines issued from time to time. The Institute administers and supervises various activities of SC/ ST/OBC/PwD and Minorities under the establishment section. The institute also appointed one Liaison officer who is a single point of contact for all matters related to a reservation in appointments and admissions, redressal of Grievances, harassment, discrimination etc., of SC/ST/OBC/PwD and Minorities.

The details of representation for the above categories are as follows:

SI. No	Position	Category	Nos.
		Scheduled Castes	10
1	Faculty	Scheduled Tribes	01
		Other Backward Classes	25
		PwD	01
		Minorities	03
		Scheduled Castes	07
2	Non-Teaching	Scheduled Tribes	03
_		Other Backward Classes	11
		PwD	Nil
		Minorities	02

Status of filling up of backlog vacancies in the year 2022-23

SI. No	Information Sought	Reply
1	The details of backlog vacancies of SCs and STs in all existing faculty and non-faculty in IITs and since when these backlog exits.	Faculty: Preparation of Faculty Reservation Roster Register is under process. No backlog vacancy as on date. Non-Teaching: Recruitment is under process
2	The reason for backlog of vacancies reserved for SCs and STs?	Faculty: The Institute is following flexible cadre structure for appointment of faculty members. Non-teaching: Non-availability of suitable candidate.
3	The time frame under which the backlog vacancies will be filed up?	Institute recruits through the year via Rolling Advt. for Faculty members and also in the process of advertising the backlog vacancies in a special Drive Mode. For non- teaching positions, a regular advt. is under process.
4	The details of relaxation being provided to SC/ST to fill the said backlog vacancies.	As per Gol norms.



Indian Institute of Technology Bhubaneswar

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