58th

ANNUAL REPORT

2017-2018

(April 01, 2017 – March 31, 2018)

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur-713209

West Bengal, India

Institute of National Importance
under
Ministry of Human Resource Development, Government of India

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From Director's Desk

It is my pleasure to publish the 58th Annual Report 2017-18 of the Institute highlighting the progress in the last financial year.

National Institute of Technology Durgapur is an Institute of National Importance that is fully funded by the MHRD, Government of India. Its major focus is to provide quality technical education with equal emphasis on research. In order to achieve the stated objectives, the curricular structure has been thoroughly revised, bringing in more scope of breadth of knowledge through open interdisciplinary electives and more scope of industry interactions through internships. As an output indicator NIT Durgapur has found its place as the 47th position in NIRF ranking. The students are actively involved in various extracurricular activities including sports, cognitive, social and culture through various club activities. New infrastructure is being prepared for establishing a number of centres of excellence in emerging areas such as Internet of Things and Intelligent Systems, Renewable Energy, Water Management, Robotics among others.

Alumni of the institute have come forward to participate in the development of the institute. The development of massive infrastructural facilities has been going on for last few years. Some of these infrastructural facilities have already been completed.

The staff, faculty and the students are working in synergy to flutter the NIT-Durgapur flag.

Professor Anupam Basu

Director
National Institute of Technology Durgapur

Progress at a Glance (2017-2018)

- The curricula for the B. Tech. and dual degree M. Tech. programmes were thoroughly revised to incorporate more choice and flexibility and inter-disciplinary approach.
- The Institute has been actively participating in the TEQIP-III program, after successful completion of TEQIP-II, a World Bank assisted programme for improvement in quality of technical education and research.
- Collaborative activities are in progress with CERN Geneva, and a number of premier universities abroad. Collaborative activities are also in progress with various premier academic and research institutes of India. Faculty visits, students' internship and collaborative research have been taken up. Four pre-final year students did the summer internship at CERN, Geneva.
- The faculty members of the Institute have publication and acceptance of 568 research articles/reviews in peer-reviewed journals, and also published 345 papers in proceedings of national and international conferences in 2017-18.
- 101 sponsored projects are being executed by the faculty members during the financial year.
- Sixty four PhD degrees were awarded by the Institute in 2017-18.
- Faculty members acted as reviewers for 261 peer-reviewed journals.
- 539 (UG & PG) students were placed through in-campus interviews in the session 2017-2018. In addition to that 65 (UG & PG) students secured more than one job. In 2017-18, 171 companies visited the campus including most of the global players.
- More than 30 workshop/short-term courses and conferences were organized by various departments of the institute.
- Six GYAN courses were organized by the institute.
- The construction of a 1250-seated Boys' Hostel was nearly completed.
- NIT Durgapur is a member institute of BRICS Network University Programme under the thematic area "Water Resources and Pollution Treatment". NIT Durgapur also received a grant from DST, Govt. of India for a collaborative research project with TPU, Russia and ECUT, China.
- NIT Durgapur has been an active member of Unnat Bharat Abhiyan, the flagship programme of MHRD, since its inception.
- NIT Durgapur has been working as a mentoring institute for Rashtriya Avishkar Abhiyan for the state of West Bengal. Along with local science organizations, it developed a few portable experimental kits for school level experiment on basic sciences.
- The 13th Convocation of the Institute was successfully organized on April 02, 2018. 812 B Tech., 299 M Tech., 27 MBA, 63 MCA, 29 MSc and 57 PhD degrees were awarded.

The Thirteenth Convocation

The thirteenth convocation of the Institute was held on April 02, 2018. Dr. R. Chidambaram, Principal Scientific Adviser to the Government of India, & Chairman, Scientific Advisory Committee to Cabinet, graced the 13th Convocation 2017 as the Chief Guest and delivered the Convocation Address Professor Anupam Basu, Chairperson (Actg), Board of Governors and Director of the Instiute, presided over the function.

1.0 Introduction

1.1 Vision Document

Vision

To impart quality technical education and focus on research and innovation to cater to the need of the country.

Mission

1. To impart quality technical and scientific education and produce engineers, technologists, scientists and citizens who will contribute meaningfully to the growth and development of the country and excel in various disciplines of knowledge.
2. To create a research-oriented teaching-learning environment in the Institute with a focus on excellence and innovation.
3. To embark upon an inclusive growth path committed to the uplift of the community.
4. To have an increased global presence.

Objectives

1. To choose a fully inclusive growth path, carrying all the students, the faculty members and the staff with it.
2. To focus on excellence and innovation.
3. To attribute greater emphasis on post graduate education and research.
4. To focus on inter-disciplinary research.
5. To encourage the faculty to take up more sponsored projects and consultancy, and increase internal resource generation.
6. To become a major player in the endeavour to make India a most favoured destination for international students and global research.
7. To collaborate with premier universities and organizations across the globe on research.
8. To initiate undergraduate students to research very early in pursuance of the “catch them young” policy.
9. To restructure the academic departments, and to set up schools and centres to offer interdisciplinary post graduate and doctoral programmes.
10. To reorient/ restructure the academic programmes in keeping with the developments and market forces.
11. To revise the curricula and syllabi regularly.
12. To initiate greater interaction with industries in the areas of collaborative projects and programmes, exchange of resource persons and training of students.
13. To remain committed to responsibilities towards providing services to community, to make people aware of crucial socio-technical and socio-economic problems, and offer technical solutions in rural, urban and agricultural sectors.

Action Plan

A. Research

1. In addition to the existing research areas, new research activities will be taken up in different thrust areas. The required infrastructure will be set up to support such activities. Intake of Institute full-time research scholars will be increased as they play a vital role in sustaining research activities in an institution. Moreover, they will cater to the urgent requirement of faculty in the technical education sector. As has been the practice, freshly recruited young faculty members will be provided with start-up grants for quality research project proposals by the Institute. Funding from TEQIP-III, plan grant and different sponsoring agencies will be utilized for the enhancement of research activities.

   The Institute will focus on a few research areas where it would like to excel and lead the country, such as Environment, Energy, Biotechnology, Corrosion, Structure, Water Resource, Power Systems, High Voltage Engineering, Microelectronics, Microwave, Machine Design, Thermal Engineering, Materials, Nanotechnology, and Software Engineering.

2. To initiate students to research early, all students including undergraduate students will be

encouraged to get engaged in research early. As has been the practice, the students will be financially supported for international research internship and for presenting papers in national and international conferences. They will also be associated with collaborative research projects.

B. Collaboration

1. Collaborations with various premier academic and research institutions in India and abroad have been established. It encompasses exchange programmes of faculty and students, joint academic programmes and research activities. More number of joint research proposals with premier academic and research institutions will be submitted to various funding agencies.
2. A special focus has been placed on forming inter-NIT research groups in multi-disciplinary thematic areas. Joint projects, doctoral and post graduate research will be carried out to gather synergistic benefits.
3. In order to strengthen the industry-academia platform, collaborative research programmes, participation of experts from industries in academic decision-making, invited lectures, training programmes for industry personnel will be further enhanced. Internship in industries shall be encouraged.

C. Teaching & Training

1. To strengthen existing B. Tech. programmes – The UG laboratories will be further expanded and augmented. Teaching-learning process has been modernized with teaching aids and learning resources. It will be further upgraded as required. Online students' feedback system on the performance of the faculty is being introduced.
2. To strengthen existing PG Programmes – 16 existing M. Tech. Programmes will be strengthened by modernizing the PG laboratories. In TEQIP (Phase II) various PG laboratories have been modernized.
3. New academic programmes in emerging areas will be introduced. Skilled postgraduates will be produced in areas having market demand.
4. The curricula and syllabi are revised regularly in keeping with technological advances. External experts from industries and academia will be consulted in the endeavour.
5. More multi-disciplinary academic programmes will be encouraged in order to bring more flexibility in academic programmes.
6. In order to provide with academic support to weaker students, remedial teaching and special training on soft skill will be conducted.
7. The faculty members will be encouraged to participate for refresher courses, training programmes and collaborative research programmes to premier institutions in India and abroad. They will also undertake pedagogical training. The staff members will also be trained in different areas. The entire training programme will be based on an exhaustive training need analysis carried out by the departments.
8. More Continuing Education programmes for the faculty members and staff of academic institutions and industry personnel will be organized regularly. A Continuing Education cell will be set up.
9. In order to enhance the Institutional Management capacity, the responsible officials like Deans and Heads will be exposed to modern management techniques so that these tools may be used in education management.

D. Infrastructure Development

1. To strengthen central academic facilities – Various central academic facilities like computer centre, library, workshop, central instrumentation facility, etc. will be modernized. More text books shall be issued to the students.
2. Institute Automation – A comprehensive Institute Automation system will be set up to integrate all the activities of the Institute, to speed up the decision-making process and to move towards a paperless and transparent administration.
3. Campus Expansion – The present campus is now grossly inadequate in view of the recent and future expansion of the institute. It has become absolutely necessary to acquire additional land around the present campus for expansion. In case it is not available, land may be explored in and around Durgapur to set up a second campus.

4. Expansion and improvement of Infrastructure – Infrastructure needs urgent expansion to cope with rapidly increasing strength of students and faculty. Though additional facilities are being set up, it needs much more. Construction of more students' hostels, faculty quarters, and academic blocks housing classrooms, laboratories, faculty rooms and other supporting infrastructure are needed urgently. The entire Institute campus should be made wi-fi enabled. The infrastructure for health service should be expanded and improved. Departmental libraries should be strengthened. Audio system should be installed in large classrooms. Adequate facilities shall be provided to the staff members. The acute shortage of basic amenities like power and water must be overcome from additional sources.
5. Students' Amenities – Auditorium, Open Air Theatre, Swimming Pool and additional playgrounds will be set up. The existing facilities of indoor games and other sports and gymnasium will be expanded.

1.2 Education System

National Institute of Technology (NIT) Durgapur is a leading Institute in technical education. It offers UG and PG programmes in various disciplines of engineering, technology, science and management. Doctoral programme is also offered in engineering, science, and humanities.

NIT Durgapur is a part of the erstwhile REC system where education and national integration were considered inseparable, with half the seats allocated to the students from the state while the rest were reserved for the students from other states. Seats are also reserved for students from backward communities as per the guidelines of the Government of India. The education system is holistic with equal importance being attached to academic as well as overall development of the students.

The Institute awards its own degree since it was granted academic autonomy in July 2003. The Senate is the highest policy-making academic body of the Institute.

1.3 New Initiatives

NIT Durgapur successfully completed the World Bank-funded Technical Education Quality Improvement Programme (TEQIP) phase II as a lead institute and improved its academic infrastructure and quality of human resources. The Institute is now selected as mentor of NIT Nagaland and Dumka Engg College Jharkhand Under TEQIP Phase III. A new Centre of Excellence on "Advanced Materials" has been set up under TEQIP-II. Over the last several years, NIT Durgapur gradually evolved from a teaching-centric institution to an institution focusing on both teaching and research. The faculty members were encouraged to intestify their research activities. This resulted in a rapid increase in research output, like publication in peer-reviewed journals and being selected for sponsored projects. The Institute also initiated collaborative research programmes with esteemed research and academic institutions like CERN, Geneva, Caledonian College of Engineering, Muscat Oman, National University of Singapore, and many other academic institutions. Internship was arranged for the undergraduate students in CERN, Geneva, Germany and NUS Singapore. A number of seminars, conferences, workshops and short-term courses were organized and the faculty members were encouraged to visit premier institutions in India and abroad for participation in conferences, short-term courses and training programmes. New academic blocks, student hostels and faculty residential blocks have been constructed and the existing academic building is being renovated.

2.0 An Overview

2.1 Historical Background

National Institute of Technology, Durgapur was established as one of the 17 Regional Engineering Colleges in 1960 as a joint venture of the Government of India and the Government of West Bengal and was registered under the Register of Societies Act. With introduction of cutting-edge technology in the emerging areas, the Institute maintained its momentum with definite mission and vision,9 which enabled it to get the prestigious status of National Institute of Technology under full administrative and financial control of the Government of India with a "Deemed to be University" status with effect from July 03, 2003. The Institute has now been declared as an "Institute of National Importance" by the Govt. of India, vide NIT Act 2007 (29 of 2007) implemented on August 15, 2007.

It started with only four branches of engineering: Civil, Mechanical, Metallurgical and Electrical Engineering for undergraduate studies in 1960. Chemical Engineering was started in 1964. At present, the Institute offers nine B. Tech. programmes and sixteen M. Tech. programmes. Besides, a three-year MCA programme and two-year MBA programme are also offered. The Institute has also introduced M. Sc. programmes in Physics, Chemistry and Mathematics with Computer Applications.

2.2 Location

NIT Durgapur is located in the heartland of industrial activities and the mineral-rich region of West Bengal, also known as 'The Ruhr of India'. The city of Durgapur is well connected by rail with Kolkata, 158 km away, and is an important railway station on the main New Delhi-Kolkata route. It is a two and a half hours' drive from Kolkata airport along Durgapur Expressway and NH2, and there is a military airport at Panagarh, only 20 km from Durgapur, in addition there is a Civil Airport, Kazi Nazrul Islam Airport Durgapur, only 15 km from the Institute. The place is only an hour's drive from Tagore's Shantiniketan and has quite a few tourist spots nearby. The climate is moderate.

2.3 Campus

The Institute campus, spreading over 187 acres, is known for its serene environment. Buildings housing the departments and laboratories, residential blocks for faculty and staff, students' hostels are far outnumbered by the trees in the campus which is self-reliant with facilities like roads, water supply, power distribution network, a market complex, banks and post office.

2.4. Administration

NIT Durgapur is an autonomous institution under the Government of India since July 2003. As per MOA, the Institute is headed by a Director and administered by a Board of Governors. It also has Finance Committee and Building and Works Committee. In the Board, there are representatives from the Government of India, the Government of West Bengal, industries, other institutions, and the faculty.

2.5. Academic Programmes

The National Institute of Technology Durgapur is an Institute of National Importance with a reputation cutting across international boundaries. It runs four-year Bachelor of Technology programmes in Bio-Technology, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical & Materials Engineering and Information Technology. The Institute also runs five year B.Tech and M.Tech Dual Degree in Biotechnology and Chemical Engineering. And it also runs five year Integrated M.Sc programme in Chemistry. Each academic year spreading over the period from 1st July to 30th June of the next year is divided into two semesters of about eighteen weeks.

The Institute also offers four semester M. Tech. programmes. Total number of M. Tech. programmes on the offer are nineteen. A three-year full time MCA, two-year full time MBA and two-year full time M. Sc. programmes have been on the offer since 2000, 2004 and 2009, respectively with the introduction of two year full time MSW programme.

2.6 Programmes Offered

2.6A Under-Graduate Courses:

The Institute provides instruction in the following courses leading to Eight Semester (Four Year) B. Tech. Degree (full time only).

Sanctioned intake of B. Tech Programme

Name of the programme	Department	Sanctioned Intake in 2017-2018
Bachelor of Technology in Biotechnology	Biotechnology	55
Bachelor of Technology in Chemical Engineering	Chemical Engineering	60
Bachelor of Technology in Computer Science & Engineering	Computer Science & Engineering	60
Bachelor of Technology in Civil Engineering	Civil Engineering	62
Bachelor of Technology in Electronics & Communication Engineering	Electronics & Communication Engineering	78
Bachelor of Technology in Electrical Engineering	Electrical Engineering	80
Bachelor of Technology in Information technology	Computer Science & Engineering	60
Bachelor of Technology in Metallurgical & Materials Engineering	Metallurgical & Materials Engineering	62
Bachelor of Technology in Mechanical Engineering	Mechanical Engineering	130
B.Tech & M.Tech Dual Degree in Biotechnology	Biotechnology	5
B.Tech & M.Tech Dual Degree in Chemical Engineering	Chemical Engineering	5
5 year integrated M.Sc in Chemistry	Chemistry	15

The students of Andaman & Nicobar Islands were admitted in Supernumerary Quota as was decided by CSAB 2017.

In addition, some seats are filled up by foreign students as nominated by the Government of India under various schemes.

50% of the seats are reserved for candidates from West Bengal and remaining 50% seats are allotted to the candidates from other States based on the JEE Main results. 15%, 7.5% and 27% of the total seats are reserved for SC candidates, ST candidates and OBC candidates respectively. 3% of the seats are reserved for PwD candidates.

2.6B Post-Graduate Programmes

(a) Full-time programmes

The Institute offers nineteen four-semester M. Tech. programmes, six-semester MCA, four semester MBA three four-semester M. Sc. Programmes and four-semester MSW programme.

Sanctioned intake of M. Tech Programme

Department	Programme	CCMT	Sponsored	Total
Biotechnology	Biotechnology	16	2	18
Chemical Engineering	Chemical Engineering	16	2	18
Civil Engineering	Geotechnical Engineering	16	2	18
Civil Engineering	Structural Engineering	16	2	18
Computer Science and Engineering	Computer Science and Engineering	16	2	18
Computer Science and Engineering	Information Security	16	2	18
Computer Science and Engineering	Software Engineering	16	2	18
Earth and Environmental Studies	Environmental Science and Technology	16	2	18
Electrical Engineering	Power Electronics and Machine Drives	16	2	18
Electrical Engineering	Power Systems	16	2	18

Department	Programme	CCMT	Sponsored	Total
Electronics and Communication Engineering	Microelectronics and VLSI	16	2	18
Electronics and Communication Engineering	Telecommunication Engineering	16	2	18
Computer Science & Engineering, Management Studies and Humanities & Social Science	Entrepreneurship and Innovations	16	2	18
Mathematics	Operations Research	16	2	18
Mechanical Engineering	Fluid Mechanics and Heat Transfer	16	2	18
Mechanical Engineering	Machine Design	16	2	18
Mechanical Engineering	Thermal Engineering	16	2	18
Metallurgical and Materials Engineering	Metallurgy and Materials Technology	16	2	18
Physics	Advanced Material Science and Technology	16	2	18
		304	**38**	**342**

Other Post-Graduate Programmes (Sanctioned Intake)

SL. No.	Specialization (Department)	Full time				Total
		Open	SC	ST	OBC	
1	Master of Business Administration (MBA)	20	7	3	10	40
2	Master of Computer Applications (MCA)	20	7	3	10	40
3	M. Sc. (Physics)	10	3	2	5	20
4	M. Sc. (Chemistry)	10	3	2	5	20
5	M. Sc. (Mathematics with Computer Applications)	10	3	2	5	20
6	Master of Social Work (MSW)	8	2	1	4	15
	Total	**78**	**25**	**16**	**39**	**155**

ELIGIBILITY

M.Tech

In qualifying degree the candidates should have passed and secured atleast 6.5 CGPA (on a 10-point scale) or 60% for OC/OB, whereas 6.0 CGPA (on a 10-point scale) or 55% in case of SC/ST/PwD candidates. The above mentioned CGPA/Percentage should be awarded by a recognized University/Institute.

MCA

Candidates with an aggregate of 60% marks (6.5 CGPA) in Bachelor's degree (Regular Course) of minimum 3-years duration from a recognized university in any discipline, with Mathematics as one of the subjects both in Graduation and at 10+2 level are eligible while SC/ST candidates are eligible with 55% marks.

M.Sc.

Three-year regular B. Sc. (Hons./ Pass) with minimum 55% marks / 6 CGPA in the relevant discipline. A relaxation of 5% marks or 0.5 CGPA is applicable for SC/ ST candidates.

MBA

Graduates (minimum 10+2+3 format) in any discipline with minimum 55% marks in graduation are eligible with a relaxation of 5 % marks for SC/ST.

MSW

Graduates in any discipline with minimum 55% marks or 6.0 CGPA in graduation are eligible.

2.7 Admission Procedure

2.7A Under-Graduate Programmes:

As decided by the Ministry of Human Resource Development, Government of India, the procedure for selection of candidates for admission to the Bachelor of Technology programmes in National Institute of Technology Durgapur and in other NITs is on the basis of AIR in JEE (Main) published by Central Board of Secondary Education, New Delhi, and the same is executed through counselling by Joint Seat Allocation Authority (JoSAA) / Central Seat Allocation Board (CSAB) under guidance from MHRD, GOI.

2.7B Post-Graduate Programmes:

Mode of Admission is detailed hereunder.

Sl. No.	Types of Student	Mode of Admission
1	Full Time GATE (M. Tech.)	CCMT
2	Full Time Sponsored (M. Tech.)	B. Tech./eqv results, Institute level test and viva-voce
3	MCA	NIMCET
4	MBA	CAT score and Institute Level GD/PI
5	M.Sc.	JAM
6	MSW	Graduation results, Institute level test and viva-voce

2.8. Students

The students find the environment of the Institute conducive not only to exercise their intellectual capability but also to learn living in cultural diversity and religious heterogeneity. In this era of free market economy India is a part of global village unconfined to its territory that we see in text books of Geography. Our students researching in higher academic institutes, and working in multinational companies have already made their marks in that global village. With a large number of students at under-graduate and post-graduate levels, the institute has excelled not only in academics but also in every field one can think of. Foreign Students are admitted supernumerary as decided by the Ministry of External Affairs and the Ministry of Human Resource Development. The students have received many prizes and awards from various other institutes in multiple activities. The NIT Durgapur is proud of producing the trained-brains more than 90% of which get employed by campus interview itself. Some of the alumni are in the higher ranks in the organisational hierarchy of the corporate sectors in India, Europe and the USA.

Students' Research Activities

May be obtained from appropriate authority of the Institute.

Extracurricular Activities:

i. Centre for Cognitive Activities

Centre for Cognitive Activities (CCA), is the technical gymkhana of NIT Durgapur. Comprising of five highly competent cells, CCA, in its true sense, caters to every aspect of what an engineer aspires for. It promotes scientific and technical acumen over various domains such as robotics, entrepreneurship, research, innovation, wed design, creativity and event management. Throughout the year, CCA organizes a galaxy of events and workshops for over-all development and stature of an engineer. The academic year 2017-18 witnessed one of the most successful sessions with over 50 events being accomplished effectively.

Robotics and Arduino are the latest technological disciplines being researched and developed. To contribute in the making of skilful technicians, CCA like every year organised Manual robotics, Semi-Autonomous robotics, Autonomous robotics and Arduino workshops which included theoretical deliverables as well as hands on experience. Followed by an examination-based competition, these workshops witnessed over 500 participants both in and outside NIT Durgapur. The new generation demands further studies and post graduate degrees.

Hence, CCA conducted various career counselling sessions with renowned institutions like Career Launcher, Vani and IMS to help our students decide their future career paths in India and abroad. This was followed by test series cum scholarship tests for admissions to these institutions.

CCA believes that the social, economic and political developments of our country need to be compelled and acted upon more quickly. Youth Parliament serves one such purpose where different socio-economic and political agendas currently prevailing in India are discussed and sorted in a scaled down version. A start-up fair was also organised wherein over 11 companies approached for around 20 internship profiles and offered more than 15 internships to our students. Promoting the research and innovative temperament, CCA gives opportunities to various students to present their research papers via its annual magazine COGNITIO. Apart from these, several workshops on Digital Marketing, Autocad, Graphics Design and Business plan were conducted to impart relevant skills to young enthusiasts.

One of the main events among all the year-long activities of the club is the convention of the Annual Techno-Management fest of the institute, Aarohan, which incidentally happens to be the second largest of its kind in Eastern India. Started in the year 2003, it has been leading the light of instilling a culture of science, technology and innovation among the youth of the nation. Aarohan '18 was another big venture for CCA. From over 40 events from different set of disciplines to fully automated science exhibition, Techmela, Aarohan'18 reached greater heights. Out of over 30 projects in Techmela, the best one was presented at Rashtrapati Bhavan under FINE programme. Inspiratie 6.0, just like other versions of it saw motivational leaders, speakers and entrepreneurs sharing their valuable experiences with the young minds. Tech-Conference on ML and AI chaired by Prof Pabitra Mitra from IIT Kharagpur, Prof. P Bhattacharyya, Director of IIT Patna, Prof. Narendra Ahuja from the University of Illinois and our Director Sir Prof Anupam Basu and Seminar on various energy alternatives, accelerator development and gravitational waves by scientists from BARC marked the success of the technical extravaganza. Adding to these, CCA has always made efforts to conceive more extensive ideas for the development of technical abilities of an individual and betterment of the collective conscience. With visionary ideas and ideologies, CCA will undoubtedly excel in 2018-19 and the sessions to come.

ii. GNU/Linux Users' Group

The GSOC heat

The GNU/ Linux User's Group takes pride in organising GSOC heat which lays the foundation for students to participate and create a space for themselves in Google Summer of Code, a global platform for developing and contributing in Open Source projects. GSOC heat is a last push given from the past GSOCers, they come with Open books of their experience that pull the future ones. It aims to inspire more students to take up this opportunity and be mentored by the ones who have already laboured in the heat.

The Google Summer of Code Barcamp

Listed officially in Google Summer of Code calendar maintained by Google this workshop aims to guide the potential GSOCers on how to select the organisations, write a successful proposal and to get started with Open Source coding.

Introduction to Linux and installation fest

To promote an operating system that ensures unrestricted distribution and contribution to all students we organise the introduction to Linux and installation fest where, as the name suggests, students learn basic commands of Linux and how to utilise the source. Not only among the Computer Science students, the need for Linux, is instilled among students of other departments as well.

Junior Code Cracker

Organised exclusively for the first years, the Junior Code Cracker is an opportunity for the future coders of our college to compete and exhibit their command over the source code, and also a motivation for the ones unfamiliar with the same. Keeping the prelims, logic based tests the reasoning of the students and gives them ample time to get a hand on a programming language.

Workshops

In order to keep the students toed on the line with the developing world, a number of workshops are organised by our club, the area being Artificial Intelligence, Machine Learning, topics which govern our generation's future and also Python and Git, skills that are necessary in contributing to almost every open source projects. A Django workshop is also organised which introduces the students to a framework used in creating quality Web Applications. MVC with Ruby on Rails, a techtalk that is organised

to open the doors to the platform on which our Online Judge of Code Cracker is built. Other workshops include Insight into Web Extensions, a step-by-step code simplification of a simple to-do-list.

MOZ TOUR

Glug also takes pride to mention MOZILLA REPS WORKSHOP, aimed at creating multiple learning opportunities that are self-directed and self-motivated. Informative speeches given by eminent people working in close association with Mozilla like Biraj Karmakar followed by a hackathon to ensure thorough learning sums up the event.

FOSSEE

GLUG is closely involved with FOSSEE (Free and Open Source Software in Education) to collaboratively conduct workshops, in association with IIT Bombay and Deep Root Linux, Bangalore, to promote the use of FOSS tools to improve the quality of education in our country and also develop new FOSS tools. The workshops are focused on leading technologies like Scilab, LaTex, etc.

SCREENCASTS

Our own Youtube channel, Screencast aims to tutor all the Open Source enthusiasts into a skilled knowledge of data and tool handling, basics of Object Oriented Programming etc. Being an easy access to the students, it runs on the very concept of FOSS. To promote the same, a screencast quiz is also organised.

LINIT

To keep the students updated on the ever updating technology, GLUG publishes its annual FOSS magazine which is a handbook of all the latest developments. Containing articles from the students themselves LINIT, gives them a platform to channelize their technical knowledge into a creative article for every student's perusal.

Aavishkar

Our club along with MNTC and SAE organises Aavishkar, the Tech Fest of our college. As the name suggests, this fest is the very arena for innovation and thus our club aims to redefine innovation with a number of online and offline events, including HACKATHON, a prestigious marathon of the software and graphic developers, which inspires some significant contributions to Open Source. While on one hand our events CODE CRACKER, INCANITY and LINCIN ARC give an opportunity to put to test your programming efficiency, FREEMEX gives you the feel of an actual stock market. Organising brain storming events like PERPLEXITY and BEHIND THE SCENES that will require reasoning, to giving all football and cricket fans a chance to create their own teams. FANTASY FOOTBALL and FREEPL, using real time ranking, these events inspire contribution to such projects. Other events include DIGITAL FORTRESS and ONLINE TREASURE HUNT which sharpens a student's ability to Google, a much required skill in today's world. Giving the students a taste of all spheres of developments be it on Ionic, Django or Laravel. Further Ignitia, is another golden batch of Aavishkar which invites speakers whose footprints we all dream to follow, an inspirational session amidst the technology race.

iii. Maths 'N' Tech club

1. ANKSHALA (July 2017-september 2017):

   Ankshala is an aptitude test conducted in various schools in and around Durgapur, Asansol, Burdwan and Bankura. This is done to install a sense of competitiveness and to see the problem solving abilities among the students. The top students meet for the final clash at NIT Durgapur.

This year we conducted Ankshala in Hemsheela Model school, KV CRPF, KV CMERI, Guru Teg Bahadur Public School, St. Xaviers, St. Peters, Bidhannagar Boys School.

2. KNOCK KNOCK (August 2017- October 2017):

This is a series of aptitude questions based on various concepts of logical problems. These are to check the IQ and also show a miniature version of various competitive exams and interview questions. The person who solves in least time and with most correct answers is declared the winner of that week. This is exclusively for first year students.

3. BRAIN DARTS (September 2017):

An event where participants aim darts towards sectors on the dart board embedding the highest multiplier. Further, they are required to solve brain teasers, tailored to their calibre owing to the provision of choice in difficulty pack.

4. SCHOLARSHIP TEST BY TIME INSTITUTE (October-2017):

A scholarship test related to MBA is conducted in association with T.I.M.E. institute Durgapur and scholarship is given to the winners.

5. VEDIC MATHS WORKSHOP (January 2018):

A workshop on vedic maths is organized on 2nd week of January 2018 and in the workshop the formulae and sub formulae of vedic maths are told to the students.

6. AUTOCAD WORKSHOP (February 2018):

Maths n tech club in association with CADD centre Durgapur is conducted a two days' workshop on Autocad in 3rd week of February. In the workshop faculty from CADD centre Durgapur teaches the student about the basic engineering drawing, building drawing, machine drawing etc.

7. AAVISHKAR THE TECHNICAL FEST (March 2018):

Maths N Tech Club in association with GLUG and SAE(two technical club of NIT Durgapur) is organized the first edition of AAVISHKAR from 15th march 2018 to 18th march 2018. During these 4 days 11 offline events and one online event are conducted. Students from other colleges also come and participate in the events and workshops of AAVISHKAR. The events are

1. Call out Sherlock: A crime scene is depicted and a team work is required to connect the clues and solve the mystery.
2. House Of Cups: House of Cups is a 2-rounds event following a prelims, which puts a test to your logical abilities and your cautious senses. While the first round tends to test your acumen the final round puts a test to your stimuli.
3. Constructo: The participants are given the opportunity to unleash the engineering skills in them and to make a working prototype out of some raw materials. The prototype has to undergo certain tests and winners are decided on their prototype's performance.
4. Cuborita: Cuborita is a team event in which the team is required to deal with a Rubik's cube along with a jenga.
5. Kryptic: It is an event to test your code cracking abilities. It does not require any previous knowledge other than presence of mind.
6. Matrix: This event is based on the ability of rational thinking, making sense of obscure data amid perplexity in puzzles.
7. Tech Charades: Tech Charades is an amalgamation of entertainment and technology where players are required to enact clues revolving around a technical term without using props or words while their teammates strive to guess the answer before the timer runs out.
8. Terrorist Teckdown: It is a test of both speed and skill, as the race is not just within the mind, but extends to the physical world where the team is required

iv. Entrepreneurship Development Cell

EDC (Entrepreneurship Development Cell) NIT Durgapur has been associated with various entrepreneurial activities and promoting innovation inside and outside the college throughout the year.

To maintain a peaceful yet motivating entrepreneurial session to the students of the college, the following events were conducted in 2017-18:

1. E SUMMIT:

For the first ever time in the history of NIT Durgapur, Entrepreneurship Summit was

conducted in the month of February 2018 by EDC. The E-Summit 2018 marked a new change in the entrepreneurial and awareness activity in the college.

The events included:

- E-Talks : EDC had taken up an initiative to organize a series of E-Talks by well-established people from different walks of life. This was organized with a motive to motivate the students at this budding stage of life and also to instill positive the essence of such success stories.
- Big Bouts, was a debate competition between the professors and students.
- FreeMex, was an online game to test investment skills. Each player was given virtual sum to invest in stocks, the one with the highest money at the end wins.
- Auction Arcadia, a fantasy bidding event, ideating at monetary management and implementing the analytical skills to make best decisions and taking up appropriate amount of risk in the worst situations.
- Youth Business Summit, where each participant was assigned a particular position in the boardroom of a company and asked to offer an unique solution to a crisis situation of the respective company.
- A Biz-quiz was organized to test the entrepreneurial and business knowledge of the students.
- We also had the Startup showcase where students pitched their startup ideas in front of angel investor, Mr. Arijit Bhattacharjee (Founder Virtual infocom).

2. Learn Wise

EDC presented a systematic design of study 'Learnwise', a significant and unique package developed by Wadhwani foundation which contained several interesting video lectures, systematic hands on assignments, test series, and all of these were made available to the students conveniently via an Android app.

3. PM-YUVA Yojana (Pradhan Mantri Yuva Udyamita Vikas Abhiyan)

It aims to create an enabling ecosystem for Entrepreneurship Development through entrepreneurship education and training across the country in select Institutes of Higher Learning (Universities, Colleges and Premier Institutes), schools, Industrial Training Centers (ITIs) and Entrepreneurship Development Centers (EDCs) for over a period of five years. Additionally, students will get easy access to a robust network of peers, mentors incubators, funds and business services through an online platform. Focus will also be on entrepreneurship promotion and social entrepreneurship.

4. Luminous:

To illuminate the college premise on the occasion of Diwali a Diya Rangoli event was organized. In this the participants were asked to make floor designs with diyas. The designs were required to be company logos. Thus the festive feel of Diwali was felt along with a lurking for corporate charm.

5. E-Tales

This was conducted from the 1st to 15th of February where we shared the inspiring stories of various entrepreneurs across the globe. Some noteworthy names included Elon Musk, Jeff Bezos, Azim Premji, Steve Jobs, Kumar Mangalam Birla etc. These stories were shared via our Facebook and Instagram page. The struggle behind the success of such personas are usually overshadowed. Hence, we tried to put forward their stories which would motivate the budding entrepreneurs. Many stories helped the students to realize that failure is bound to be but we shouldn't stop dreaming.

6. Road Not Taken

This was an online event inspired by a poem of the same name by Robert Frost. Here, we asked students or would be engineers to click pictures with banners bearing what would they be if they weren't an engineer. We even had a discussion with many engineering students enquiring if this was a choice or compulsion. This event got viral and students from different places started posting their pictures with their actual choice of career. This made students think again about the choices they have made and the various other options which they could indulge in.

v. Debating Society

The official Debating Society of NIT Durgapur transcends the definition of a club or even a congregation of like-minded people. It is rather a necessity in any college as multiple issues and conflicts surround us every day. It is also required to build a consciousness in the college towards issues of national importance and public awareness.

Ice Breaker - 6th August 2017

With that, we launch our first online event of the semester called IceBreaker. Meant solely for the first year students, it gives them a platform to voice their opinions on highly polarizing topics while answering questions from their peers. Every year, a plethora of students participate and ensure that their voices are heard. The topics vary from reservations in education to the need for an attendance cut-off all the way to the defects of today's education system. The winner is selected on the basis of validity of argument and number of peers in support of his/her statements.

Clarion Call - 12th September 2017

One of our ongoing flagship events is Clarion Call. It follows a simple debate format, where each participant brings an opponent to his view on a given issue. Hence, the verbal battles are almost rehearsed beforehand and it gives each participant a chance to hash out a major issue with a fellow peer.

Reverberate - 9th November2017

We start off every year with a mass orientation cum workshop for the incoming batch of students which introduces them to the aspects of college level debating and the general definition of our club. The orientation, named Reverberate, sees a participation of more than 400 students every year, all eager to find out more about the club and its role in the college. We address their issues as well and induct a sense of pride and responsibility in them every single time. We briefly describe the nuances of public speaking, along with an exhaustive list of Do's and Don'ts, which are demonstrated for their benefit. It is a highly successful part of our calendar year and gives us a boost at the very start.

Wall Street - 10th February 2018

To introduce a fun element, we brought out the inner salesman in each student with our highly popular event, Wall Street. In this, each participant's marketing skills were on full display. They were provided with a simple item chosen at random, which they had to market, advertise and sell anyhow. This brought forward a whole new dimension of sales in general and invoked every sense of creativity amongst the participants. It pitted each participant against each other and sparked the most elaborate of debates.

Big Bouts - 14th August 2018

Another interesting event added to our calendar was Big Bouts, a wrestling match of wits. Based on the knockout system of debating, each participant was given the chance to go directly against their opponents on a topic chosen at random. Very literally the survival of the fittest, it calls for absolute determination and grit. No participant can afford to be complacent for even a second, as the slightest lapse in concentration will result in a knockout punch.

Emancipate - 12th August 2017

We also heavily feature other online events, as it is the perfect medium for those who fear public speaking but are heavily opinionated. We introduced Emancipate, a forum for any abuse victims in vicinity, whose voices needed to be heard and a platform needed to be provided. We offered them a promise of anonymity and allowed them the freedom to confide amongst their peers. This led to a huge rise of social awareness in the campus and the proper treatment of such issues by both the students and the authorities.

Tendentious - 22th September 2018

With regards to popularising opinions, we launched Tendentious. This event took the college by a storm as we were flooded with entries from every possible direction. The premise was simple, state your most popular or unpopular opinion and prove your uniqueness to your acquaintances. It gained massive traction amongst all the college students, as it gave them a chance to state the unwritten quirks of their surroundings and college. One of our most popular events, it reached a total of 1000 students and contacts everywhere.

vi. Prakriti

ABOUT US

We the People of Prakriti- The Techno Environmental Club of NIT Durgapur, strive to make a difference and inculcate the seed of awareness and action in the minds of prospective engineers to make this environment a sustainable place for every

living being. Our motto is to change the notion that "Engineers do not care for the environment" into making every individual on campus, a "Green Engineer, who minimizes the risk of pollution that might be caused with new inventions or breakthrough researches in technology." As a club, we imbibe to the values our Mother Nature has taught us: Perseverance, Sustenance, and Progress. Right from its rootage, Team Prakriti has made true those envisions of the founders of our club and crossed many milestones ever since its onset. We conduct our events throughout the year, reminding and awaking the slumbered minds, the importance of the environment and its preservation.

Course of Action

ENSIGNIA

(A Project exhibition cum presentation)

Over the next few years, climate change coupled with a growing population which is expected to reach 9.7 billion by 2050 will have a dramatic impact on our world and will disrupt our already fragile ecosystem. By 2030, 65% of our population will face a shortage of power and water. Energy consumption is growing at a staggering rate and is projected to increase by as much as 55% by then. This is primarily due to the combined effect of population growth and a dependency on energy-intensive lifestyles. Trends such as urbanization that requires water-intensive activities are putting pressure on already scarce resources. The availability of clean and affordable water for everyone on the planet is becoming a major challenge. It is reported that by 2050 at least one among four peoples will be affected by water stress and severe water shortages. It is up to us to find ways to simultaneously preserve the environment and drive development to ensure that future generations have a better world to live in.

Prakriti- The Techno environmental Club of NIT Durgapur, encourages participants to develop high-quality sustainable solutions that can be used to solve water, power, waste, public health, open innovation etc.related challenges and create a positive impact on the environment.

This event has witnessed mass participation of students from our town and various other colleges like NSHM, NHIT, BC Roy, DIATM etc from all over the West-Bengal.

VILLAGE TRIP

A fifth of the world's population lives in India and two-thirds of these live in villages- You have to go rural to discover India's beating heart. "Village trip" is an exclusive trip by the core members of the club who visit a remote village every year and bring up the solutions to cover the existing environmental problems of that village. It is synonymous to village-adoption and observes the changes and improvements of that particular village. It enables us to get in touch with the roots of our society and to experience the raw beauty of such areas. It teaches about a new culture from the most suited people, as the cultural heritage in remote villages is well preserved.

ENVOICE

Imagine if trees gave free Wi-Fi, we'd all be planting like crazy. Its pity they only give us the oxygen we breathe. It's time to raise our voices for the mother earth. What we are doing to the environment is a mirror reflection of what we are doing to ourselves and to one another. So, let's come forward and speak our hearts out on the present scenario because speaking triggers emotions, which in turn initiate changes. Prakriti, the official environmental club of NIT Durgapur conducts EnVoice, a platform where not only voices will be raised but will also be listened.

EnVoice, as the name suggests is your voice for the environment, gives you an opportunity to speak on the latest environmental issues. Like every year, Prakriti comes up with new and innovative twists to make it more interesting. EnVoice is conducted in two rounds. The first round will be a case study based group discussion among batches of 7-8 participants. Based on individual performances, participants will be selected for the final round. *(100+ Participants)*

RUNIT *(Mini Marathon)*

It's a mini-marathon run of 5 km promoting the cause of preserving of nature and earth's resources. Its main objective is to create awareness on saving forests, saving villages and saving agriculture. Its motive is to choose a route where the participants can joy and realize the need for saving natural resources. Athletes and non-athletes join this marathon which is conducted during mid-February every year to make it a successful event. As it's not about the destination but the journey similarly Forget the miles, just remember the glory to be the part of the "MARATHON" to inspire others by pushing our own limits and boosting our self-confidence. This Marathon gets the participation of athletes associated *(300+ Participants)*

PLANTATION

During monsoon, when the rains avail the nascence of small saplings, we conduct this event 'Plantation'. Saplings provided by the Forest Department of Durgapur are planted in various areas inside the campus. As nowadays people are having a habit to live a luxurious life and new cities are born or ready to be made back to back for which a number of trees are cut down, severe damages made to forest, it brings us towards a darkness where, there is no rain, shortages of oxygen and many other problems. So this event is to inspire everyone to join hand to hand to make artificial forests. If each person plants a tree then billions of peoples can make the world green. *(200+ Participants)*

TREASURE HUNT

Curiosity waits at its peak. The God in the heaven seek. For you to do the hunting Amidst the evil's chanting.

Relive the myth in the search of the treasure of Prakriti's- TREASURE HUNT! Let the hunt begins. Treasure hunt is held during Diwali which gives it a huge audience attraction.

We give the chance to participants to explore the whole campus in an entirely different way. (200+ Participants)

Nature is beautiful and guesses what? It's everywhere! And though many of us forget the allure of whistling willows and babbling brooks, chances are if you're reading this, you are NOT one of those people. Most likely you are a beautiful lover of nature and because you're, we the environmental club of NIT Durgapur "Prakriti" presents you the chance to showcase your nature love in the form of nature photography. All you have to do is capture the natural beauty of our campus in your cameras and send your entries in our Facebook page through a message. *(100+ Participation last year)*

Sprout Snap

It is an online event mainly conducted for fun. In this, we upload images of trees on our campus on our website and whoever replies with the correct location of the images wins.

We give the chance to participants to explore the whole campus in an entirely different way. *(85+ Teams Participated this year)*

FOLK TALKS

This online event provides an online debating platform for the enthusiasts to battle out with words on various topics. This is an anonymous platform that would give every point a fair chance of recognition based on the content without revealing their origin. (200+ Participants all around the country)

AWARENESS PROGRAMME

ROLL UP RAGS

This is one of the events we Earth Warriors are tagged, by most of the inhabitants of this campus. We find this as a responsibility to clean up our own home before trying to reform the whole wide world. Our motive for doing this is to have a cleaner and healthier living environment without any academics suffering. Maintaining a clean college environment sets a good example to students to encourage them to potentially make a bigger effort to maintain their environment. Teams are divided among which we, the team our club members along with volunteers from NSS and interested people for the cause try cleaning up the campus from non-degradable plastic and make the work successful *(250+ Participants)*

EARTH HOUR

Earth Hour is a worldwide movement organized for nature. This is an initiative to encourage peoples all across the world to take accountability of their ecological footprint and engage in dialogue and resource exchange that provides real solutions to our environmental challenges. It is held annually encouraging individuals, communities, and businesses to turn off electric lights for one hour, from 8:30 to 9:30epM on a specific day towards the end of March. This is a "star event" where lights-off for one hour is seen as a symbol for the commitment to the planet. The event we organize involves the candle march in and outside of the campus by the students of NIT Durgapur, organized by our team has won many accolades. The lights are put out for an hour during which candle march proceeds. The support provided by the management and of the campus and the professors are praiseworthy. *(200+ Participants)*

NATURA *(Annual Magazine)*

The annual magazine of Prakriti, The official techno environmental club of NIT Durgapur. This magazine is basically a summary of all the work as events and projects done by our club throughout the year. Our entire club can be viewed in this magazine. It is published officially on the website of our college and is also circulated by means of social networking sites. This magazine also consists of green art in

the form of Poems, Paintings, Photography, Short stories, Collages, Articles provided by the nature lovers to make aware people of this beautiful living world. It inspires us in setting up bigger goals and achieving higher levels in successive years.

It is mailed personally to all the professors of our college by team Prakriti.

vii. SPIC MACAY 2017-18

The Society for the Promotion of Indian Classical Music And Culture Amongst Youth (SPIC MACAY) is a nation-wide voluntary youth movement initiated by Dr. Kiran Seth in 1977, to promote Indian classical and folk music, dance, arts & crafts and the cultural heritage among youth. This society, being an MHRD initiative, has its chapters in over 300 towns all across the world, most of which are in various colleges and schools throughout India. One such chapter of this esteemed society is SPIC MACAY, NIT Durgapur. Besides organising concerts by eminent artists, the society also aims at kindling the flame in the students by providing them amazing platforms and opportunities to portray their talents. Every chapter hosts fests like Virasat and holds national conventions to promote national heritage.

Anubhav

SPIC MACAY in association with the Bihari More Education Project organises Anubhav which is an art workshop for the underprivileged kids in and around the campus. It is a small initiative to instil a healthy competitive and creative spirit among the little children and bring a ray of joy in their lives.

Uttarayan

Every year during Makar Sankranti, SPIC MACAY organises Uttarayan which is the kite festival of the college. It is a fun filled and exciting event and sees a tremendous participation from the students every year. It is an amazing sight to watch hundreds of kites soaring up in the sky at the Lords ground and students having fun and soaking in the beautiful atmosphere.

Virasat

Virasat is the grand cultural extravaganza organised by the SPIC MACAY Heritage club NIT Durgapur. Held over three days, it sees the presence of renowned musicians, dancers and artists from all across the country. You will have a great time soaking in the richness of Indian tradition with some mesmerising dance and music performances by a string of renowned names. This year during 23rd to 25th March, Virasat had the privilege of having revered figures like Pt. Ajoy Chakraborty (Hindustani classical vocal), Shovana Narayan (Kathak dance), Partho Sarathi (Sarod) and Mr. Sudip Gupta (modern puppetry) mesmerise one and all with their art. This year for the first time all the performances of Virasat were officially webcasted live through Facebook and YouTube by SHAALE, the authorised webcasting partner of SPIC MACAY. Virasat is only four years old and each edition seems to be bigger and better than the before and we hope to continue with this tradition in the years to come as well.

viii. Enteract Club

Enteract, the official Dramatics club of NIT Durgapur, has been providing a platform to one and all in the college to showcase their talents in dramatics which gets somewhere lost amidst the monotonous class routines and has been succouring people develop their dramatic prowess. The club not only takes charge of the entertainment field but also spreads awareness among people through modes of street plays, stage plays, mimes and short films.

The club began its journey on Independence Day, wherein the newly inducted members of the club performed a street play, “TransFormers”. Through this “nukkadnatak”, the club tried to exhibit the grievances and hardships of the people belonging to the third gender, and how if their potential is utilised, they can be an asset to the society. The club received immense love and appreciation from the college students and others present there.

We, then represented NIT Durgapur in “Rendezvous’17”, the cultural fest of IIT Delhi, one of the largest of its kind, wherein students not only from IITs and NITs but also from various other colleges from all over India participated. The club performed a street play and a stage play titled “TransFormers” and “The Story” respectively. “The Story” was a common life play of a parent, who immensely loved his son, just only to see himself get abandoned by him as he becomes old.

Next, the club represented the college in “Spring Fest’18”, the cultural fest of IIT Kharagpur, largest in Eastern India. The club performed the stage play “The Story” and a street play titled “Woh Hum Mein se

EkHai". Through our street play, we showcased how transgenders are no different from us and deserve a life as unchallenging as ours. The performance was up to the standards we had set for ourselves and thus, we secured the first position in the street play competition.

We then participated in "Carpe-diem'18", the cultural fest of IIM Calcutta, wherein we performed the stage play "The Story" and a street play "Seetimaar", about the Whistle Blower Act which provides a mechanism to investigate alleged corruption and misuse of power by public servants and also protect anyone who exposes alleged wrongdoing in government bodies, projects and offices. We secured the third and first positions in the stage play and street play events respectively.

The club, then gave an opportunity to the first year students to showcase their talent in front of the college. On the occasion of Republic Day, a few first years students performed a street play to spread awareness about the austerity and distress in an orphan's life. The performance was well acknowledged and respected by the crowd.

The club, then organised a special event in the Students Activity Centre, "Enteract Showcase" to perform our stage play "The Story" in front of the college students. Apart from the stage play, two monoacts were presented, one on the struggle of a village girl who was kidnapped and then molested and other on the romance between an inter caste couple.

The newly inducted members of the club, then presented a street play in Junction Mall, titled "Bachat" highlighting the importance of saving the resources 'Mother Earth' has gifted us with.

The club is also active on Youtube and created a few short movies over the year. Through our short movies, we tried to entertain as well as spread awareness about social issues.

Enteract is about cheerful faces singing and tapping their feet joyfully to the drum beat, their voices loud echoing through the walls of SAC making the surrounding reverberate with the same energy, thus cultivating dramatic skills in young technical minds.

ix. Radio Nitroz

Official Radio Station of NIT Durgapur, Radio Nitroz with the tagline Masti ka dozz was formed in the year 2006-2007 by the students of NIT Durgapur. Radio Nitroz is the 3rd successful LAN/Internet based radio among all IITs and NITs.

The basic agenda of this club is to communicate with the students of the college, be a college media and fill the campus with entertainment, news and fun. Team Nitroz is very popular for radio shows on LAN and the live Dedications that it does for hours every night. Since its formation the club hasn't looked back and the team is able to spread its network across the globe with the latest development in its technical section. It connects with the students on a regular basis through its various shows.

ACTIVITIES OF THE CLUB 2017-18

1. Radio Shows:

   It is a LAN-based radio station which plays a mix of Hindi and English songs and can be tuned at www.myradiostream.com/nitroz

   The listeners can listen to songs of their interest and dedicate to their loved ones from 10:30 pm - 12:30 am during the entire week. The basic motive of the shows is bring to the students daily news, placement updates, happenings in college. Advertisements regarding the upcoming fest or events of a club is also done here.

2. Fun Events

   Radio Nitroz conducts offline events in association with various other clubs of the college. RN Jukebox, RN Excite etc. are some offline platforms for fun activities in the college fests where people participate in huge numbers with extravagant enthusiasm. Students always look up to Radio Nitroz in college fests, for their fun events.

3. Red FM collaboration

   Radio Nitroz in collaboration with RED FM 93.5 had organised "College Ke Tashanbaaz", an offline event where the students were allowed to showcase their talents in any field of interest like dancing, singing, comedy, poetry, etc. The event was very successful with a huge participation.

4. Web series

   Listeners can also connect with us through our YouTube channel Radio Nitroz where we bring videos intended for humour and makes the viewer go ROFL!

Video Kahinka is one such venture where you can find these humorous videos. It is all about getting response of the students about few hilarously weird, off the track questions.

We have also made short films and a few You Tube series showcasing the talents of our mates.

The most loved radio show of ours, 'Dil Ki Ek Diary Se' has also been made available in the form of videos in our channel.

5. Success Stories

We hold another venture named "Success Stories", here we interview the students with notable achievements in his/her field of interest. We believe that students can connect easily to those of their age group and therefore the journey of one of them Success Stories has become a very popular and is inspiring the lot.

x. NSS

NSS NITD is the National Institute of Technology Durgapur chapter of the National Service Scheme, institutionalized under the Ministry of Youth Affairs& Sports Govt. of India. The Motto of NSS, "Not Me But You", reflects the essence of democratic living and upholds the need for self-less service. NSS helps the students develop appreciation to other person's point of view and also show consideration to other living beings. In the academic year 2017-18, apart from the regular activities of NSS, the volunteers participated in the Vigilance Awarness Week, National Unity Week,SwachhataPakhwada, Matribhasha Diwas, Communal Harmony Week,and Unnat Bharat Abhiyaan activities. In this session Annual Camp was organized during April13-15, 2018 at Ranchi Colony, a slum in Durgapur. During this camp free medical check-upand treatment was provided to almost 130 inhabitants. In this endeavor, NSS received the full support of doctors from Mission Hospital, IQ City Hospital, etc. of Durgapur area. Individual doctors also served voluntarily and free of cost in this camp. Painting competition for the children, workshop on skill development, sanitation awareness, etc. were some other activities of the camp.

xi. NCC

The Institute NCC Unit has a senior Division Boys & Girls wing under 10 Bengal BN NCC Asansol West Bengal.

This wing undertake co-curricular Activities XES-01 & XES-02 for first two semester B-Tech, B-Tech and M-Tech (Duel Degree) and Integrated MSC Courses as well as participated NCC scheduled programme on regular basis.

xii. INDIAN SOCIETY OF TECHNICAL EDUCATION

Students chapter NIT Durgapur

ISTE NIT Durgapur is the oldest Student Chapter of Eastern India. It nominates projects and papers for the Indian Journal of Technical Education (IJTE) published by the ISTE HQ, New Delhi on quarterly basis with the aim to provide an appropriate platform presenting well considered, meaningful, constructively thought provoking, non-political and non-conventional but critically analyzing and synthesizing present and future aspects of the technical education system supported with meaningful suggestions for solutions, refinement and innovation. It also aims to develop the overall personality of the students and so conducts events like industrial trips.

ISTEis the leading national proffesional non-profit making Society for the technical education system in our country with the motto of Career Development of teachers and personality Development of Students and allover development of our Technical Education System. At present,ISTE has a very large and efficient membership base consisting of more than 1,02,985 Life Membership,5,54,094 Students Member,2014 Institutional Members including IITs,IISc,NITs and other leading technical institutions.

INDUSTRIAL TRIP

ISTE NIT Durgapur is the oldest Student Chapter of Eastern India. It nominates projects and papers for the Indian Journal of Technical Education (IJTE) published by the ISTE HQ, New Delhi on quarterly basis with the aim to provide an appropriate platform presenting well considered, meaningful, constructively thought provoking, non-political and non-conventional but critically analyzing and synthesizing present and future aspects of the technical education system supported with meaningful suggestions for solutions, refinement and innovation. It also aims to develop the overall personality of the students and so conducts events like industrial trips.

Industrial visit has its own importance in a career of a student who is pursuing a professional degree. It is considered as a part of college curriculum and objective of industrial visit is to provide students an insight regarding internal working of companies. We know, theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work.

The rapid changes that the world is currently going through, coupled with changes in engineering education in this era of 21st century; an opportunity to witness and get hands on experience of the processes and functions of a manufacturing industry or a power generating station is a blessing much sought after especially by the undergraduates as a penultimate before they actually kick-start their career as a young, bright practicing engineers.

In this session, Industrial Trip was held at Indian Oil Corporation Limited (IOCL), Rajbandh Terminal. Many students from core engineering branches participated in this event and made it successful.

ALL INDIA STUDENT'S ENGINEERING CONGRESS (AISEC)

The is our flagship and an annual symposium organized in every even semester aimed at providing students with a professionally sumptuous platform to deepen one's technological competency, scientific temperament and determination to motivate oneself and to keep abreast with cutting edge technology through a cascade of events such as Technical Paper, Presentation, Project Contest, Expert Lectures, Seminars to name a few. In this session AISEC was held on 18th March 2018 under Aavishkar. The Annual Tech Fest of NIT Durgapur. Students from various colleges in Durgapur participated and made this event successful. Professors from CMERI were also the part of jury member along with our Chief Faculty Advisor, Dr. Anita Pal mam.

INTER COLLEGE TECHINCAL MEET (ITM)

ITM is a composition of many events such as group discussion contest,technical quiz contest,technical crossword and quizzes witnessing participation of students from various colleges in and around Durgapur followed by such a fierce competition among its participants resulting into great coherence of thoughts among the followers of a particular topic of interest giving an opportunity to conserve and debate with the best technical minds in vicinity.

(Nationally Accredited Certificates of Participation and Excellence to be awarded)

COGNITIVE INTELLIGENCE TEST(CIT)

"Show your attitude through your aptitude". ISTE, NIT Durgapur organises a Cognitive intelligence test, a brief aptitude cum reasoning test along the lines of the ongoing recruitment and campus placements so as to provide its participants an experience and a glimpse of actual placement scenario. It is conducted every year in odd semester in NIT Durgapur campus. It is a unique opportunity to showcase student skills through 30 minutes test of aptitude. It is helpful for those students who have ambience of their recruitment. Additionally, the top performers will be awarded with certificates of merits, prizes and goodies.

2.9 Examination & Evaluation

The Institute follows semester system of examination.
The under-graduate courses are of eight semester (four year) duration. The Institute has been upgraded to National Institute of Technology, Durgapur with Institute of National Importance status and grade system of evaluation has been adopted for the under-graduate students who have been admitted in the year 2003 and onwards. The students are graded with Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). The SGPA of a semester indicates the academic performance of the student in that semester and CGPA indicates the academic performance of the student from the beginning till the current semester. They are conferred with the degree of Bachelor of Technology (B. Tech.) at the completion of the course.

The PG course in engineering and technology are of four semester duration for the full time students and six semester duration for the part time students and lead to degree of Master of Technology (M. Tech). The Master of Computer Applications (MCA) course is of six semester duration and the Master of Business Administration (MBA) course is of four semester duration and the students are evaluated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). The Master of Science (M. Sc.) course is of four semester duration and All the students of these post-graduate programmes are evaluated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

2.10 Placement

Training & Placement Department of the institute provides employment opportunities to the final year students and training to the 3rd year students after 6th semester. 491 UG students have been placed in the session 2017-2018. Apart from that few students have opted for higher studies in various IITs and IISc. 121 companies visited the campus including MICROSOFT, AMAZON, ORACLE, GOLDMAN SACHS, J.P. MORGAN, AMDOCS, C-DOT, IBM, L&T, TCS, WIPRO, CESC, HSBC, PWC, TATA MOTORS, RELIANCE JIO, HERO MOTOCORP, EXIDE, BPCL, BDL, IOCL.

Annexure-I & Annexure-II provides the UG & PG statistics for placement respectively.

28 companies visited the campus for M.Tech courses and 40 no of students have been placed in the academic session 2017-2018. Rest of the students have gone for higher studies.

16 companies visited for MCA and 21 students have been placed out of total eligible strength of 70.

6 companies visited for MBA and 9 students have been placed out of total eligible strength of 19.

Training and Allied Activities

Industrial Training/ Vocational Training is provided to the students of 3rd year after passing 6th semester. Annexure-III provides the list of companies for each individual branch.

Along with training the department organizes seminars entitled from classroom to boardroom by reputed global players such as TCS, Wipro and IBM.

Student's development activities such as communication and interpersonal skills by reputed organizers are also conducted.

Each year 5 no of students go for Internship in CERN (European Council for Nuclear Research, Switzerland). Foreign universities like ANUS, Singapore also allows NIT students for internship.

2.11 Games and Sports

The Institute lays emphasis on the promotion of sports and games amongst the students as an essential co-curricular activity and also promotes interaction between different NITs and other Engineering colleges of the country.

Student Activity Centre organized Co-Curricular Credit Course (XES-01 & XES-02) in Physical Education & Sports and its allied branches as a compulsory subject in B-Tech, B-Tech & M-Tech (Duel degree) and integrated MSc courses for first two Semesters.

The Student Activity Centre also provides training facilities to all students, staff and the family members of the Institute. It has excellent infrastructure facilities for both outdoor and indoor games. Students are trained in various games and sports by well experienced and qualified coaches. The Institute has one central gymnasium equipped with sufficient number of equipments and the playgrounds (The Lords & The Oval) always bubble with outdoor activities like football, cricket, volleyball and athletics. Concrete court facilities are also available in tennis, basketball and badminton. Flood light facility is also provided to some outdoor games. The central playground (The Oval) accommodates an excellent pavilion and facilities for all athletic events.

2.12 Staff Position

The Staff position (both teaching and non-teaching) on date of the Institute is given in detail in items 11.5 (a), 11.6 (a) & 11.6 (c).

2.13 Rajbhasha Samiti

As per the directives of the Department of Official Language, Ministry of Home Affairs, Government of India, Rajbhasha Samiti of the institute is committed for the implementation of Official Language at the institute. Through out the year the committee tries to achieve the targets set by the Department of Official Language, GoI, in its Annual Programme. The Samiti is also active at the town level in coordination with Town Official Language Implementation Committee (TOLIC). The coordinator actively participated in all the regular meetings. He also worked as an active member of the editorial team of the annual magazine " Durgapur Bharti". Hindi Pakhwada 2017 was the mega event of Rajbhasha Samiti in this session. Several activites were organised during this fortnight.

Matribhasha Diwas: 21 February: was also celeberated at the institute. As per the intiative of the Director, Prof Anupam Basu, the day was observed for the whole week, i.e. 19 Feb 24 Feb 2018. In this week long celeberation the Samiti in collaboration with NSS, played a vital role in the organisation of the event. In this event the focus was not only on Hindi but other languges like Bengali and Telgu were also in focus. Speakers were called from India and abroad to present their views on 'The present state of Bengali Language'. Students not only participated in the programmes in full fervour but also attended the classes that day in their traiditional attire to promote their culture along with their mother tongue.

Apart from such events, the Samiti, in coordination with the representative of Department of Official Language, Ministry of Home Affairs, Government of India, conducted courses for Praveen, Prabodh, and Pragya for faculty members and staff at the institute only. The samiti played an instrumental role, with the support of the Director, Prof Anupam Basu, in writing the names of departments and buildings, for the the first time, in bilingual i.e. Hindi and English. The process to make Department/section letterheads, envelopes, seals, etc., bilingual is also on. As a result of constant training and pursuassion, this academic year witnessed some employees using the Official Language in letters and signatures.

2.14 Notable Achievements shown in Graphs and pictures:

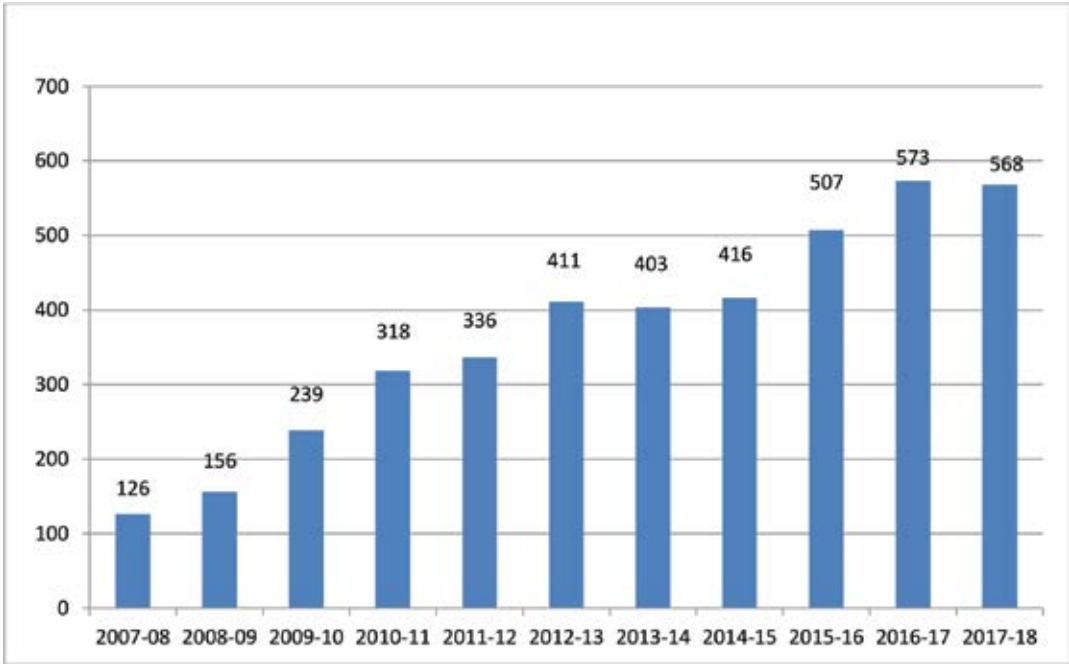


Fig. 1 Publication in journals in the last few years

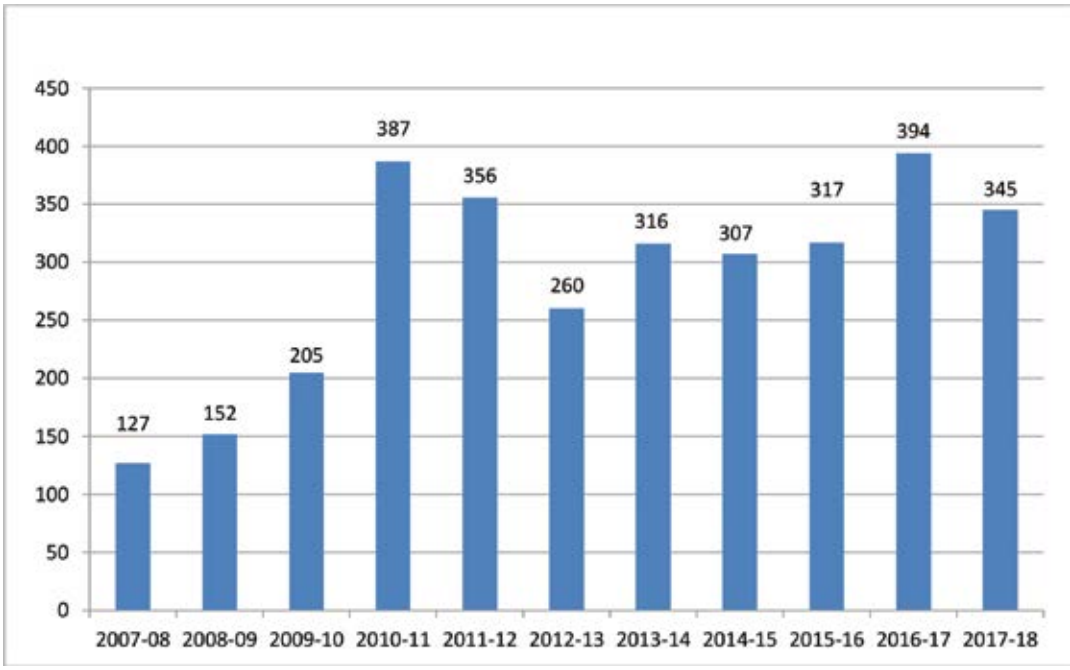


Fig. 2 Presentation in conferences/symposiums in the last few years

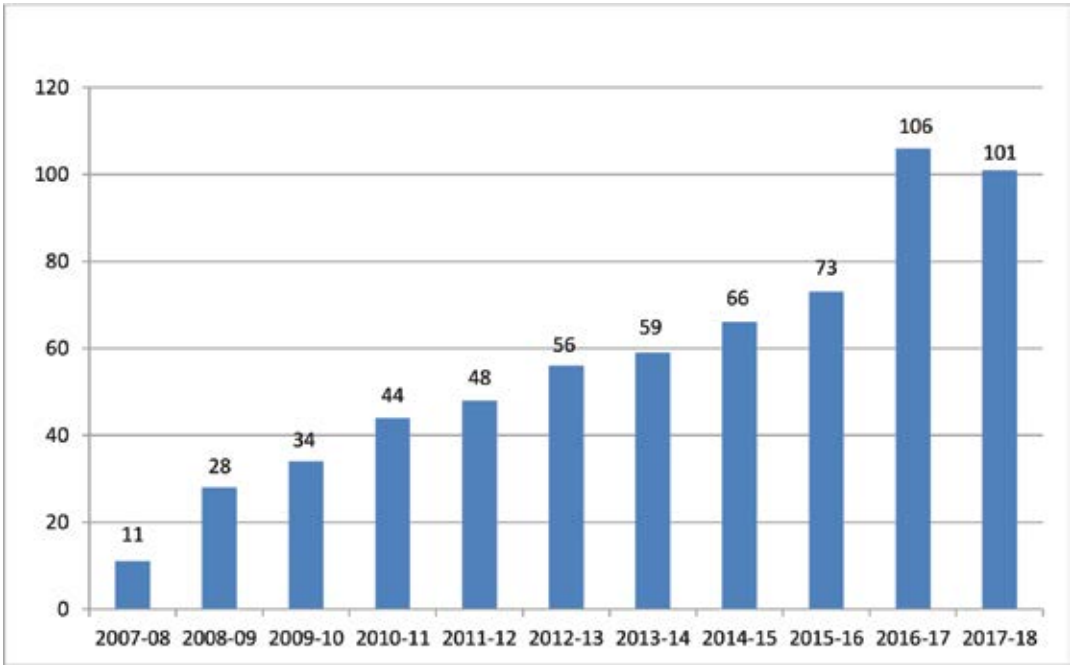


Fig. 3 Number of sponsored projects during the last few years

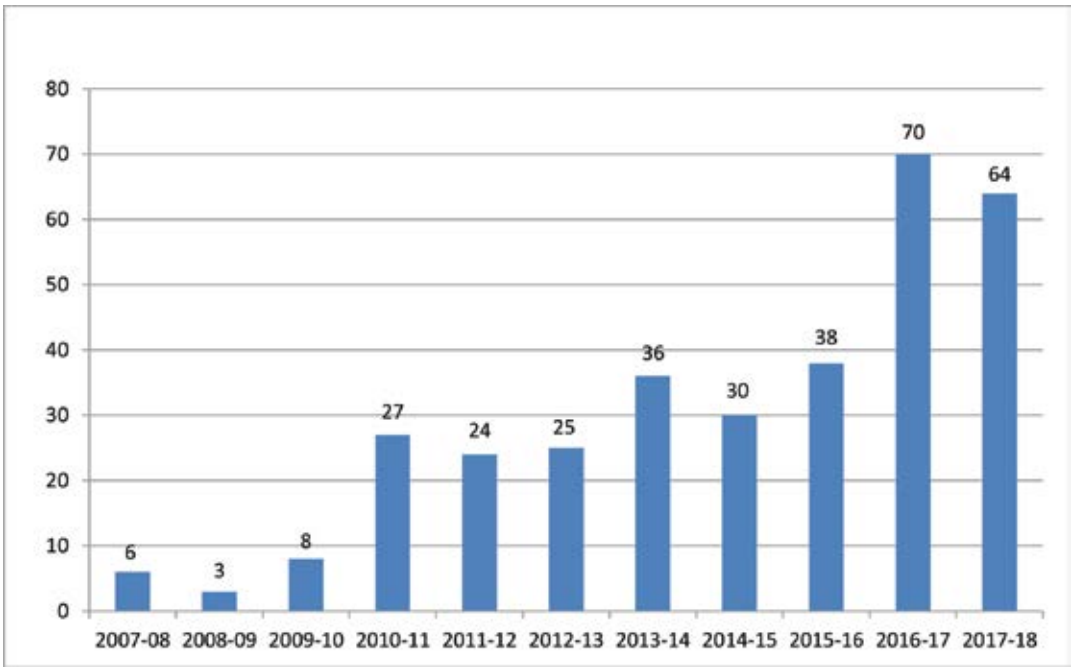


Fig. 4 Number of PhD degrees awarded during the last few years

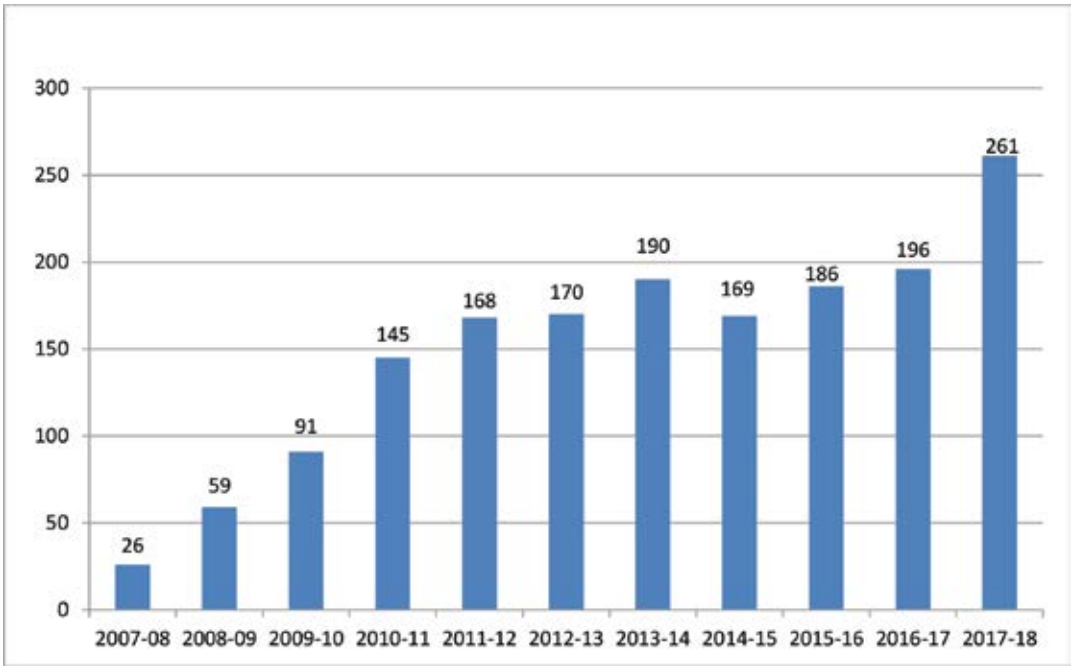


Fig. 5 Reviewers of journals/books during the last few years

Fig. 6 Thirteenth Convocation

Fig. 7 Thirteenth Convocation

Fig. 8 Thirteenth Convocation

Fig. 9 Thirteenth Convocation

Fig. 10 Thirteenth Convocation

Fig. 11 71st Independence Day Celebration

Fig. 12 Matribhasha Week 2018

Fig. 13 NSS Volunteers

3.0 The Staff

3.1 Academic Staff (Teaching)

Department of Biotechnology

Sl. No	Name of the post	Name
01	Professor	Chattopadhyay Sudip, PhD
		Dey Apurba, PhD
02	Associate Professor	Aikat Kaustav, PhD
		Chaudhuri Surabhi, PhD
		Dasgupta (Mandal) Dalia, PhD
		Mukhopadhya Sudit Sekhar, PhD
03	Assistant Professor	Dutta Debjani, PhD
		Ghosh Monidipa, PhD
		Khannam Kazy Sufia, PhD
		Roy Barman Subhankar, PhD
04	Assistant Professor (On Contract)	Mahata Nibedita, PhD

Department of Chemical Engineering

Sl. No	Name of the post	Name
01	Professor	Ghanta Kartik Ch., PhD
		Gupta Parthapratim, PhD
		Mondal Tamal, PhD
		Pal Parimal, PhD
		Sarkar Jyoti Prakash, PhD
		Sadhukhan Anup Kr, PhD
02	Associate Professor	Dutta Susmita, PhD
		Haldar Gopinath, PhD
03	Assistant Professor	Mandal Mrinal Kanti, PhD
		Paruya Swapan, PhD
		Sikder Jaya, PhD
04	Assistant Professor (On Contract)	Das Bimal, PhD

Department of Chemistry

Sl. No	Name of the post	Name
01	Professor	Mukhopadhyay Bishnu Pada, PhD
02	Associate Professor	Maji Milan, PhD
		Moi Sankar Ch., PhD
		Patra Apurba Kr, PhD
		Sukul Dipankar, PhD
		Saha Rajnarayan, PhD
03	Assistant Professor	Adhikari Utpal, PhD
		Chakrabarty Jitamanyu, PhD
		Panja Sujit Sankar, PhD
04	Assistant Professor (On Contract)	Saha Tanmoy Kr., PhD

Department of Civil Engineering

Sl. No	Name of the post	Name
01	Professor	Bhattacharjee Kamal, PhD
		Bhattacharyya Soumya, PhD
		Das. Amlan, PhD
		Dwivedi. Vijay Kr., PhD
		Roy Purnendu, PhD
		Saha Showmen, PhD
		Singha Roy Dilip Kr., PhD
02	Associate Professor	Banik Atul Krishna, PhD
		Datta Aloke Kr, PhD
		Nanda Radhikesh Prasad, PhD
		Samanta Amiya Kr. PhD
03	Assistant Professor	Das Diptesh, PhD
		Karmakar Somnath
		Pal Supriya, PhD
		Roy Pronab, PhD
		Samal Nihar Ranjan, PhD
		Topdar Pijush, PhD
04	Trainee Teacher	Patra Pratik

Department of Computer Science & Engineering

Sl. No	Name of the post	Name
01	Professor	Sanyal Goutam, PhD
02	Associate Professor	Choudhury Subhrabrata, PhD
		De Tanmay, PhD
		Nandi Subrata, PhD
		Nandi Debasish, PhD
		Pal (Debroy) Tandra, PhD
		Roy Suchismita, PhD
		Sarkar Goutam, PhD
03	Assistant Professor	Bhattacharjee Sanghita, PhD
		Chakraborty Baisakhi, PhD
		Changder Subhamoy, PhD
		Choudhury Prasenjit, PhD
		Dalui Mamta, PhD
		Das (Daptary) Dipanwita, PhD
		Das Suvrojit, PhD
		Dutta Animesh, PhD
		Guha Thakurta Parag Kr., PhD
		Howlader Joydeep, PhD
		Jana Nandadulal, PhD
		Majhi Subhankar
		Mitra Debasis, PhD
		Mukhopadhyay Sajal, PhD
		Sadhu Sanjib
		Saha Mousumi, PhD
		Saha Sujoy, PhD
		Sarkar Anirban, PhD
		Sen Bibhas, PhD
		Sharma Abhijit, PhD
04	Assistant Professor (On Contract)	Kisku Dakshina Ranjan, PhD

Computer Centre

Sl. No	Name of the post	Name
01	Professor	Nil
02	Associate Professor	Nil
03	Assistant Professor	Chatterjee Rajib
		Saravanan C., PhD

Department of Electrical Engineering

Sl. No	Name of the post	Name
01	Professor	Banerjee Subrata, PhD
		Dutta Swapan Kumar, PhD
		Ghosh Saradindu, PhD
		Ghoshal Sakti Prasad, PhD
		Ray Nirmal Kumar, PhD
		Thakur Sidhartha Sankar, PhD
02	Associate Professor	Acherjee Parimal, PhD
		Koley Chiranjib, PhD
		Mahato Sankar Narayan, PhD
		Saha Tapas, PhD
03	Assistant Professor	Barman Jitesh Ch.
		Bhowmik Partha Sarathee, PhD
		Das Avinandan
		De Jayati, PhD
		Sarkar Supriya, PhD
04	Assistant Professor (On Contract)	Halder Suman, PhD
05	Trainee Teacher	Dey Rajiv

Department of Electronics and Communication Engineering

Sl. No	Name of the post	Name
01	Professor	Bhattacharjee Anup Kr., PhD
		Ghatak Rowdra, PhD
		Kundu Sumit, PhD
		Maji Banshi Badan, PhD
		Mahanty Goutam Kr., PhD
02	Associate Professor	Mahapatra Rajat, PhD
		Mal Ashis Kr., PhD
		Sadhukhan Tapas, PhD
03	Assistant Professor	Chandra Anirudha, PhD
		Dhar Roy Sanjoy, PhD
		Kar Rajib, PhD
		Majumder Aurpan
		Mandal Sujit Kr, PhD
		Mondal Durbadal, PhD

Department of Earth & Environmental Studies

Sl. No	Name of the post	Name
01	Professor	Gangopadhyay Aniruddha, PhD
02	Associate Professor	Adhikary Kalyan, PhD
03	Assistant Professor (On Contract)	Mondal Sandip, PhD

Department of Humanities

Sl. No	Name of the post	Name
01	Professor	Sengupta Partha Pratim, PhD
02	Associate Professor	Nil
03	Assistant Professor	Banerjee Joydeep, PhD
		Modak Arindam, PhD
		Rai Srikrishan, PhD

Department of Management Studies

Sl. No	Name of the post	Name
01	Professor	Roy Mousumi, PhD
02	Associate Professor	Bandopadhyay Goutam, PhD
		Dutta Avijan, PhD
03	Assistant Professor	Banerjee Nilotpal, PhD
		De Anupam, PhD
		Mondal Kaushik, PhD
		Pal Durba, PhD
04	Assistant Professor (On Contract)	Ghosh Amlan, PhD

Department of Mathematics

Sl. No	Name of the post	Name
01	Professor	Basu Kajla, PhD
02	Associate Professor	Sarkar (Mondal) Seema, PhD
		Kar Samarjit, PhD
03	Assistant Professor	Bagchi Satya, PhD
		Dey Lakshmikanta, PhD
		Maitra Sarit, PhD
		Pal Anita, PhD
		Pal Pinaki, PhD
		Panigrahi Goutam, PhD

Department of Mechanical Engineering

Sl. No	Name of the post	Name
01	Professor	Basak Indrajit, PhD
		Banerjee Nilotpal, PhD
		Halder Biswajit, PhD
		Majumder Manik Chandra, PhD
		Mullick Amar Nath, PhD
		Saha Anup Kr., PhD

Sl. No	Name of the post	Name
02	Associate Professor	Biswas Arup Kr. PhD
		Layek Apurba, PhD
		Mitra Ambuj Kr PhD
		Mukhopadhyay Sumit, PhD
		Hui Nirmal Baran, PhD
		Puri Asitbaran, PhD
		Pramanik Achinta Kr, PhD
		Roy Shibendu Shekhar , PhD
03	Assistant Professor	Bera Biswajit PhD
		Barman Rabindra Nath, PhD
		Das Asim kr.
		De Jagannath
		Karmakar Sujit, PhD
		Khan Kallol, PhD
		Mitra Ranjan Kr. PhD
		Patari Animesh
		Pramanik Shantanu, PhD
		Rana Subhash Ch., PhD
04	Trainee Teacher	Akram Wasim
		Kumar Deepak

Department of Metallurgical & Materials Engineering

Sl. No	Name of the post	Name
01	Professor	Ghosh. Karuna Sindhu, PhD
		Mitra Swapan Kumar, PhD
02	Associate Professor	Bhattacharya Ashish, PhD
		Maity Joydeep, PhD
		Pramanik Susanta, PhD
		Roy Rabindranath
03	Assistant Professor	Bera Supriya, PhD
		Ghosh Madan Mohan, PhD
		Mandal Durbadal, PhD
		Mondal Manas Kr., PhD
		Mallik Manab, PhD
		Show Bijay Kr, PhD
04	Assistant Professor (On Contract)	Maji Barnali, PhD

Department of Physics

Sl. No	Name of the post	Name
01	Professor	Kumbhakar Pathik, PhD
		Meikap Ajit Kr., PhD
02	Associate Professor	Chakraborty Amit Kr, PhD
03	Assistant Professor	Basu Soumen, PhD
		Chaudhuri Hirok, PhD
		Mandal Mrinal Kanti, PhD.
		Mondal Aniruddha, PhD
		Sahoo Sukdev, PhD

Further detail of faculty positions are given in Annexure 11.5(a) to 11.5(d).

3.2 Non-Academic Staff (Non teaching)

The non-academic Staff (non-teaching) of the Institute consists of competent officers, technical and administrative persons. The details of the non-academic staff position are given in Annexure 11.6(a) to 11.6(e).

3.3 Training Status

The Institute provides ample opportunities to the Faculty to attend Seminars, Conferences, Short-Term Programmes etc. in India and abroad. Details are given in Annexure 11.7(a) & 11.7(b).

3.4 Placement of Staff for Academic excellence

To encourage teaching and non-teaching staff, the Institute provides opportunities in the form of leave for higher studies/research and taking up research projects from outside agencies. Faculty members and staff of the Institute are also encouraged to attend summer and winter schools, seminar, workshops etc. on the emerging areas. Research papers are regularly published in national and international journals. The details of publications, doctoral programmes, research projects, etc. are given in Annexure 11.4(a) to 11.4(i).

4.0 Teaching Programmes

4.1 Programmes Offered

The programmes offered by the Institute have already been mentioned in item number 2.6. For further elaborations item numbers 11.8 (a) and 11.8 (b) may kindly be referred to.

4.2 Programme-wise Enrolment with Gender, Caste Break-up

4.2 A1. Enrolment in B.Tech. Programmes during 2017-2018 Session (Genderwise):

Vide Annexure 11.8(b) 1.

4.2 A2. Enrolment in B.Tech. Programmes during 2017-2018 Session (Castewise):

Vide Annexure 11.8(b) 2.

4.2 B1. Enrolment in M.Tech. & M.Sc. Programmes, 2016-2017 (Gender wise):

Vide Annexure 11.8(b) 3.

4.2 B2. Enrolment in M.Tech. & M.Sc. Programmes, 2017-2018 (Caste wise):

Vide Annexure 11.8(b) 4.

4.2 C1. Enrolment in MCA Programme during 2017-2018 Session (Gender wise):

Vide Annexure 11.8(b) 5.

4.2 C2. Enrolment in MCA Programme during 2017-2018 Session (Caste wise):

Vide Annexure 11.8(b) 6.

4.2 D1. Enrolment in MBA Programme during 2017-2018 Session (Gender wise):

Vide Annexure 11.8(b) 7.

4.2 D2. Enrolment in MBA Programme during 2017-2018 Session (Caste wise):

Vide Annexure 11.8(b) 8.

4.2 E. Enrolment of Research Scholars for PhD work during 2017-2018 (Full time & Part time):

Vide Annexure 11.8(b) 9.

4.3 Admission Statistics – UG/PG Programmes

The details of the admission statistics is given in Annexure – 11.8(c)1. to 11.8(c)5.

4.4 Students' Total Strength

Sl. No.	Name of the programme	Total Number of Students
1	Bachelor of Technology	2937
2	B.Tech & M.Tech Dual Degree	8
3	5 Years Integrated M.Sc. Programme	13
4	Master of Technology	477
5	Master of Computer Applications	132
6	Master of Business Administration	48
7	Master of Science	69
8	Master of Social Work	11
9	PhD	697
	Total	**4392**

4.5 The Hostels

Staying in hostels is mandatory for all undergraduate students of the Institute. Accommodations are provided to GATE-qualified M Tech students, too. The Institute has seven halls of residence for the male students of which five halls are of 250 seats capacity each, one is of 360 seats capacity and the other can accommodate 120 students. Three of these halls have single-seated rooms for senior students. The Institute has also several halls of residence and the details are given below :

Hostels	Boys/Girls	Actual student Capacity	Number of students accommodated
Hall-1	Boys	650	636
Hall-2	Boys	252	316
Hall-3	Boys	336	320
Hall-4	Boys	252	252
Hall-5	Boys	380	380
Hall-6	Girls	119	172
Hall-7	Girls	194	166
Hall-8	Girls	125	125
Hall-9	Boys	548	462
Hall-10	Girls	332	332
Hall-11	Boys	702	592
Hall-12	Boys	170	97
A & B Type Qr.	Girls	73	62

4.6 Scholarships/Assistance

The Department of TPSW helps the students to avail several scholarships under various schemes which are listed in the annexure 11.9(a). Moreover, the Institute provides merit-cum-means scholarship to some of the needy students of the Institute.

4.7 Games and Sports

The Institute organized various intra NIT tournaments through out the year in the fields of football, volleyball, basketball, cricket, chess, badminton, athletics and yoga.

In the year 2017-2018 Institute participated in the following All India Inter NIT & other Games & Sports Meet.

1. All India Inter NIT Football (Men) & yoga (Men & Women) Tournaments organized by NIT Agartala during October 26-28, 2017.
2. All India Inter NIT Body- Building (Men) & Athletics (Men & Women) tournaments organized by NIT Jaipur during November 03-05, 2017.
3. All India Inter NIT Hockey (Men) Tournament organized by NIT Surathkal during January 12-14, 2018.4. All India Inter NIT Badminton & Basketball (Men & Women) Tournaments organized by NIT Warangal during January 27-29, 2018.

5. All India Inter NIT Cricket (Men) Tournament organized by NIT Calicut during February 15-18, 2018.
6. All India Inter NIT Volleyball, Chess & Table Tennis (Men & Women) Tournaments organized by NIT Kurukshetra during February 22-25, 2018.

4.8 Awards

The details of the awards received by the students and the faculty are given in Annexure 11.9(b).

4.9 Examination Details

Written examinations are held at the end of every semester (generally of 3 hours duration) for the theory papers. B. Tech. examinations are arranged centrally by the Academic Section while the postgraduate examinations are being conducted by the respective departments from the academic year 2008-09, with partial support from the Academic Section, whenever necessary. The students are also continuously assessed through class tests, viva-voce and the class attendance. For the laboratory and sessional classes, the assessments are continuous and supported by viva-voce /examination at the end of the semester. The methods of the evaluation systems on such assessments are given below.

SGPA- CGPA System

All the subjects in a semester carry credit units depending on the contact hours per week and nature (lecture/ tutorial/ sessional/ laboratory) of the class. The full marks for all the subjects both theoretical and sessional/ laboratory are 100. The percentage mark of a theoretical subject consists of 30% by continuous assessment, and 70% through end semester examination. The total mark obtained in a subject is converted to appropriate letter grade by the subject teacher(s) and dispatched for result compilation. In general, the number to grade conversion and the corresponding grade value is as follows:

90 and above: Ex (10); 80-89: A (9); 70-79: B (8); 60-69: C (7); 50-59: D (6); 40-49: P (5). Below 40 in theory subject or below 50 in sessional/laboratory: F (0). Failure in Sessional / laboratory is required to repeat the semester through readmission. In case of absent in end-semester examination: X (0).

The product of the grade value and the credit unit of that particular subject is the grade point earned by the student in that subject. The total grade point (TGP) is the summation of all such grade points. Semester grade point average (SGPA) = (TGP) / Total credit unit of the semester, rounded up to second place of decimal. If a candidate cleared all the subjects, he is declared as passed in the grade sheet, otherwise supplementary. Supplementary candidate(s) will be allowed to appear in the supplementary examinations for the subject(s) in which he/she was failed. Fresh grade sheet is issued for such candidates with improved SGPA. The grade obtained by the candidates in the subject(s) for which he/she had appeared for the supplementary examinations are decreased by one step at the time of compilation of the supplementary examination results. Unsuccessful candidates in the supplementary examination are required to repeat the semester through readmission. Two such readmissions are permitted in the whole undergraduate studentship. The CGPA is also indicated in the grade sheet, which is the indicator of the student's continuing performance given by the ratio of the total grade point scored by the student up to the current semester and the total credit unit of all the subjects up to the current semester. Based on the CGPA at the end of the final semester the classes are awarded as follows: CGPA≥ 8.00First class with Distinction; 8.00 > CGPA ≥ 6.50First class; the rest of the passed candidates get Second class.

Similar system is followed for the M. Tech., M. Sc., MBA and MCA programmes. In some project based courses in MBA, the 70/30 ratio as indicated above is changed according to need as a special case.

The results of the end semester examinations (both Undergraduate and Postgraduate) are compiled centrally by the Examination Cell.

4.10 Training and Placement

The Institute provides industrial training and placement to the students through the Department of Training, Placement, and Students' Welfare. The students are given an insight of the corporate industry via various vocational training programmes facilitated by the department. The department believes that such an insight is quite crucial and helps the students in understanding the professional aspects along with the technical details of their probable future jobs. Along with training sessions (ranging between 3 to 5 weeks), the department also organises plant visits to various organizations in and around Durgapur. Apart from providing industrial training, the department also helps the students in preparing for campus recruitment drives by developing their communication and interpersonal skills through certain development programmes, which include conducting mock group interviews. It also takes care of inviting reputed firms from all over to hire students through their campus recruitment drives.

5.0 Research and Development activities

5.1 Proposed Plan for Research

Proposed Plan for Research

Vide Annexure – 11.4(g) 1

5.2 Details of PhDs done so far

Vide Annexure - 11.4(h) 1

5.3 Institute-Industry Collaboration during 2017-18

Department of Biotechnology

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Aaranya Biosciences Private Limited, Chennai, 603103, Tamil Nadu, Kancheepuram District. (Dr. M. Ghosh)	Diagnostics and in vivo testing	Research and Development
Dhuliajan and Jorajan Oil Fields (Assam), Oil India Ltd. (Dr. Sufia Kazy)	Microbial bioremediation of oil containing sludge	Research and Development
Digboi Refinery, Assam, Indian Oil Corporation Ltd. (Dr. Sufia Kazy)	Microbial bioremediation of oil containing sludge	Research and Development
Guwahati Refinery, Assam , Indian Oil Corporation Ltd. (Dr. Sufia Kazy)	Microbial bioremediation of oil containing sludge	Research and Development

Department of Chemical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Durgapur Steel Plant, Durgapur	Wastewater Treatment	Abatement of pollutants from wastewater
Durgapur Steel Plant, Durgapur	Wastewater Treatment	Coke oven waste water treatment

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
MEDILABZ Company, Kolkata	Bio-Medical Instrumentation	Institute Industry Collaboration

Department of Mathematics

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Eastern Coalfield Limited Durgapur	Application of Operations Research in Coal Mine Areas.	M.Tech Project Thesis

Department of Mechanical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Foundry Cluster Development Association, Kolkata	Foundry practice	Training, Research and Development

Department of Metallurgical & Materials Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Durgapur Steel Plant, Durgapur	Metallurgy	Research and Development
Alloy Steel Plant. Durgapur	Recycling of EAF Dust	Research and Development

5.4. Innovations and Technology Transfer

Patent filed during 2017-18

Department of Biotechnology

Title	Inventors	Application No.	Date of filing
Recombinant Cellobiohydrolases	Mukhopadhyay, S.S., Reddy, S. D., Sarkar, N., and Aikat, K.	201731045312	17/12/2017

Department of Chemical Engineering

Title	Inventors	Application No.	Date of filing
Low cost portable domestic nanomembrane-based water purifier	Prof. P. Pal & M. Pal	201731020043A	7/6/2017
System and Method of Direct Lactic Acid Production	Prof. P. Pal	1364/KOL/2011A	29 Aug 2017

5.5 Workshops/Seminars Organised by the Institute (2017-18)

Department of Biotechnology

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Dr. Arunangshu Ganguly, Healthworld Hospitals, Durgapur Dr. Sri Siva Kumar, IIT Kanpur Prof. Suparna Chatterjee, IPGMER Kolkata Dr. Ankur Karmokar, Astra Zeneca Dr. Rahul Roy Chowdhury, Saroj Gupta Cancer Centre & Research Institute, Kolkata Dr. Koel Mukherjee BIT Mesra Dr. Mahua Ghosh, Calcutta University Dr. Dipankar Halder, Jadavpur University Prof. Mahadeb Pal, Bose Institute Dr. Surabhi Choudhuri, NIT Durgapur Dr. Susmita Datta, NIT Durgapur Dr. Debjani Dutta, NIT Durgapur Dr. Ashish Bhattacharjee, NIT Durgapur Dr. Kaustav Aikat, NIT Durgapur Mr. Amiya Kumar Kalidaha, DHESTB Dr. Hari Kumar K B, RGCB Dr. Vasudha Agnihotri, GBPIHED	TEQIP III and Department of Higher Education, Science & Technology and Biotechnology, (Science & Technology Branch),Govt. of West Bengal sponsored short term course on Bioactive compounds form natural sources and their healthcare applications (Bionutra 2018)	Jan 08-14, 2018
2.	Prof. T. Kumar Prof. S. Datta Prof. J P Sarkar	Training SC/ST Community in Selected Rural Areas of Durgapur on Organic Agriculture and Bio fertilizer production	5th May 2017
3.	Prof. T. Kumar Mr. Pulak Sinha Roy	Recent developments in mitigation of problems associated with Leather and Petroleum industry-An initiative towards treatment and valorization of wastes & Production of Bio Fertilizer	14th December 2017
4.	Prof. Kannan Iyer Prof. P. Ray Dr Sanjay Chandra & Dr S. Ganguly Prof. Prabir Basu Prof. Swapan Bhattacharya Dr Rajiv K Tayal Dr V. K. Jayaraman Dr Somnath Nandi Dr Sujit Karmakar Swapan Paruya (ref:http://www.nitdgp.ac.in/esmoc2017/presentation-ESMOC-2017.pdf)	ESMOC 2017- 2nd Energy System Modelling and Optimization Conference	December 11-13, 2017

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
5.	Dr. Arunangshu Ganguly, Dr. Sri Siva Kumar, Dr. Ankur Karmokar Dr. Hari Kumar K B Dr. Vasudha Agnihotri Prof. Suparna Chatterjee Dr. Susmita Dutta Dr. Surabhi Chaudhuri Dr. Debjani Dutta, etc	Bioactive compounds from natural sources and its Health Care Applications	January 8-12, 2018

Department of Chemistry

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Dr. R.N. Saha, Dr. J. Chakrabarty & Dr. Utpal Adhikari	One week self sponsored course on chemical and spectroscopic analysis of soil and water samples	03.07.17 - 07.07.17

Department of Computer Science and Engineering

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Koushik Sen, University of California, Berkeley, USA	GIAN course on "Advance Topics in Software Testing, Debugging and Program Analysis	July 26-31, 2017
	Prof. Dipti Prasad Mukherjee, ISI Kolkata Prof. Jamuna Kanta Sing, Jadavpur University Prof. Kuntal Ghosh, ISI Kolkata Dr. Sushila Maheshkar, ISM Dhanbad Dr. Amit Chaudhuri, CDAC, Kolkata Mr. Abhisek Hazra, CDAC, Kolkata Mr. Rajesh P. Barnwal, CMERI, Durgapur Mr. A. Srinivasan, CMERI, Durgapur Dr. Chandran Saravanan, Dept. of C.S.E. Dr. Jaydeep Howlader, Dept. of C.S.E.	ISEA Sponsored One Week Short Term Course on Biometrics	August 07-11, 2017
	Prof. Bhargab B. Bhattacharya, ISI Kolkata Prof. Samarjit Chakraborty, Technical University of Munich, Germany Dr. Anupam Chattopadhyay, School of Computer Science and Engineering Nanyang Technological University, Singapore Dr. Writam Banerjee, Institute of Microelectronics, CAS, Beijing, China Professor Anupam Basu, Director NIT Durgapur Prof. Santanu Mahapatra, IISc Bangalore	7th International Symposium on Embedded Computing and System Design (ISED 2017)	December 18-20, 2017

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
	Prof. A. K. Roy, Director, IIEST, Shibpur Prof. P. K. Biswas, IIT Kharagpur Prof. S. Mukhopadhyay, IIT Kharagpur Prof. U. Pal, ISI, Kolkata	Machine Learning in Computer Vision and Pattern Recognition (MLCVPR-2018)	February 05-09 , 2018
	Abhas Abhinav Kannan M Moudgalya	Workshop on FOSS	February 16-17, 2018
	Dr. Anirban Sengupta, IIT Indore Dr. Dipanwita Roy Chowdhury, IIT Kharagpur Dr. Rajat Subhra Chakraborty, IIT Kharagpur	TEQIP-III Sponsored One Week Short Term Course on "Hardware Security and Its Applications	March 6-10, 2018

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
IIT Kharagpur	Power Electronics, Multilevel Converters	Banerjee S (NIT) Chakroborty C (IIT)	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Control Systems, Power Electronics	Banerjee S (NIT), Giri S (CMERI)	Joint Research

Department of Humanities & Social Sciences

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Prof. P. Das, Dept of Economics, Calcutta University Prof. S. K. Bhaumik, Director, IDS Jaipur	Seven-Day Workshop on Applied Econometrics in collaboration with Department of Commerce, Sikkim (Central) University	March 20-26, 2017

Department of Management Studies

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Dr T. Bandopadyay Dr A. Banerjee Dr G Banerjee Dr Avijan Dutta Dr Kaushik Mandal	Advanced Research Methods and Data Analysis(Self Finance)	June 4-10, 2017.
2.	Dr. Rahul Roy Chowdhury	Awareness Workshop on 'Menstrual Hygiene and Gynaecological Health for Overall Wellbeing of Women'.	November 04, 2017
3.	Dr. Amlan Ghosh Dr. G. Bandopadyay	Seminar workshop in Management & Commerce	February, 17-18, 2018

Department of Mathematics

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. S. Maitra, Dr. P. Pal, Department of Mathematics, NIT Durgapur	Short term course on Mathematical Modelling	October 10-14,2017
2	Prof. Goutam Chakraborty, Department of the Software and Information Science, Iwate Prefectural University, Japan and Dr. Samarjit Kar, NIT Durgapur	GIAN course on From Data to Knowledge: State-of-the-Art Tools to Analyze Static and Dynamic Data	September 04 – 12, 2017
3	Prof. S. K. Pal, ISI Kolkata, Prof. A. Roy, IIEST Shibpur, Prof. M. K. Chakraborty, Calcutta University, Prof. A. Basu, NIT Durgapur	National Seminar on Fuzzy Set Theory and Applications	November 30 – December 2, 2017
4	Prof N. C. Debnath, Winona State University, Winina, USA	One day lecture on A Multi Colored Graph: does it have predecessor and/or successor	December 5, 2017

Department of Mechanical Engineering

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. Anish Roy Chowdhury, Faculties of NIT Durgapur	Matlab and Simulink for Technical Computing (MSTC 2018)	January 15–19, 2018
2	Faculties from: IIT D, IIT Kgp, CSIR-CMERI Durgapur, Jadavpur University, Kolkata, IIEST Shibpur	Recent advances in microfluidics: development, application & analysis	December 6-10, 2017

Department of Physics

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. D. Gall, Rensselaer Polytechnic Institute, USA.	Development of Microstructure and Nanostructure by Physical Vapour Deposition for the application of Optoelectronic Device (GIAN)	January 22-26, 2018.
2	Prof. Sukalyan Chottopadhaya	Prof. M. S. Sinha Colloquium held at NIT Durgapur	February 03, 2017
3	Prof. Amitabha Ghosh, Honorary Scientist, Indian National Science Academy, (New Delhi) and Former Director IIT Kharagpur	Prof. M. S. Sinha Colloquium 2018	February 05, 2018
4	Prof. Ranjan Ganguly, Jadavpur University Prof. Subhananda Chakrabarti, IIT Bombay Prof. Sunanda Dhar, University of Calcutta Prof. Suman Chakraborty, IIT Kharagpur Prof. Achintya Dhar, IIT Kharagpur Dr. Abhiram Hens, CSIR-CMERI Durgapur Prof. Paramita Chattopadhyay, IIEST Shibpur Prof. Kalyan Kumar Chattopadhyay, Jadavpur University	Smart Materials and its Applications in Engineering (SMAE). (TEQIP Sponsored Short Term Course)	February 12-16, 2018.

Sl. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
5	Prof. Anupam Basu, Director, National Institute of Technology Durgapur Dr. Amit Chaudhuri, Group Head, ICT & Services, CDAC, Kolkata Prof. Mamun Or Rashid, Jahangir Nagar University, Dhaka, Bangladesh Prof. Tanmoy Bir, Sursuna College, Kolkata Prof. Atanu Saha, Jadavpur University, Kolkata	Matribhasa Divas 2018	February 23, 2018
6	Prof. Arun Lahiri Majumder, INSA Senior Scientist, Bose Institute, Kolkata Prof. Amit Gangully, Ministry of Steel Chair Professor, NIT Durgapur	National science day 2018	February 28, 2018

5.6 Collaboration with Academic and Research Institutions

CERN, Geneva:

The following students visited CERN, Geneva, Switzerland during 15th May -9th July 2016 for Research based project at CERN, Geneva as a part of summer Internship initiative.

1.	Mr. Subhodeep Ghosh	Department of Electrical Engineering
2.	Ms. Sreetama Sarkar	Department of Electronics&Communication Engineering
3.	Mr. Wasim Yuhana	Department of Mechanical Engineering
4.	Ms. Taniya Karmakar	Department of Electrical Engineering

Caledonian College of Engineering, Muscat, Oman:

An MOU was signed in 1st April, 2008 between CCEO (Caledonian College of Engineering, Muscat, Oman) and NIT Durgapur and the areas of cooperation are: corporate training, short courses and consultancy services, seminars, workshops and conferences, staff exchange programmes, exchange of students and research and development.

Till date, 16 faculty members of NIT Durgapur visited CCEO for delivering lectures in different departments. Four faculty members from CCEO visited NIT Durgapur.

Seventeen faculty members of CCEO registered for PhD programme at NIT Durgapur and 9 have been awarded the PhD degree.

Department of Biotechnology

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Borehole Geophysical Research Laboratory, MoES	Research on microbiology of deep subsurface continental crust at Koyna region, Western India	Kazy, S.K, NIT Durgapur; Sar, P., IIT Kharagpur, Roy S, MoES-BGRL, Karad, Maharasthra	Research Project
Bose Institute, Kolkata	Research on Cellular Signalling, Inflammation mediated Cancer	Bhattacharjee, A., NIT Durgapur Biswas, K., Molecular Medicine, Bose Inst. Pal, M, Molecular Medicine, Bose Inst.	Joint Research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Ground Water Board, Kolkata	Research on arsenic contaminated groundwater microbiology	Kazy, S.K, NIT Durgapur; Sar P., IIT Kharagpur; Kar A, CGWB, Kolkata	Research
Central Mechanical Engineering Research Institute (C.M.E.R.I), Durgapur	Research on Ethanol Production from Water Hyacinth	Dey, A., NIT Durgapur and Chatterjee, P.K.,C.M.E.R.I Durgapur	Joint Research
Central Mechanical Engineering Research Institute (C.M.E.R.I), Durgapur	Research on Environmental Biotechnology	Dey, A., NIT Durgapur and Mondal, B.N.,C.M.E.R.I, Durgapur	Joint Research
Central Mechanical Engineering Research Institute (C.M.E.R.I), Durgapur	Research on Tissue Engineering Applications	Dey, A., NIT Durgapur and Mondal B.N.,C.M.E.R.I, Durgapur	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Biomimetics	Mukhopadhyay, S., NIT, Durgapur and Chatterjee D., CEMRI, Durgapur	Research
Central Mechanical Engineering Research Institute, Durgapur	Biosensor Development	Ghosh, M., NIT DGP, Mistry, K., CSIR-CMERI DGP.	Research
Central Mechanical Engineering Research Institute, Durgapur	Microbial Fuel Cell	Chaudhuri, S., NIT DGP, Arun, R., CSIR-CMERI DGP.	Research
Central Mechanical Engineering Research Institute, Durgapur	Research projects on Biopolymer Development and its Applications	Mahata, N., NIT DGP, Chanda, N., CSIR-CMERI DGP.	Research
Geological Survey of India, Kolkata	Research projects on subsurface sediment/groundwater microbiology	Kazy, S.K, NIT Durgapur; Sar P., IIT Kharagpur; Pal T., GSI, Kolkata	Research
IARI, New Delhi	Research on Production of Novel Enzymes	Dutta, D., NIT Durgapur, Lata, IARI, New Delhi	Joint research
Indian Institute of Technology Kanpur	Nanotechnology for drug delivery	Chaudhuri, S., Dutta D, NIT Durgapur; Sivakumar, S., IIT Kanpur	Research
Indian Institute of Technology Kharagpur	Research on subsurface sediment/ groundwater microbiology	Kazy, S.K, NIT Durgapur; Sar, P., IIT Kharagpur, Pal T, GSI; Mukherjee, A., IIT Kharagpur	Research Project
Pondicherry University, Pondicherry	In-silico phytopharmaceutical drug development	Chaudhuri, S., NIT DGP, Pan, A., Pondicherry University.	
Tripura University, Tripura	Biosensor Development	Ghosh, M., NIT DGP, Bhattacharjee, S., Tripura University	Research

Department of Chemical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Burdwan University	Membrane-based biofuel production	Prof.P.Pal	Research & publication
Caledonian College of Engineering Muscut, Oman	Industrial Water Treatment of Oman	Dr. S. Dutta Dr. M. Geetha Devi	Collaborative research & publication
Central Mechanical Engineering Research Institute-CSIR, Durgapur	Catalyst development	Prof.P.Pal	Research & Publication
Department of Environmental Science, Burdwan University, West Bengal	Wastewater Treatment by amalgamated technique	Dr. Gopinath Halder, NIT Durgapur; Dr. Naba Kumar Mondal, Burdwan University	Joint Research
Engineering School of Lorena, University of Sao Paulo, Brazil	Biofuel Production	Dr. Jaya Sikder	Joint Project DBT, GOI & CNPq Joint Publications
ICAR-Indian Agricultural Research Institute-New Delhi	Algal biorefinery	Dr. Gopinath Halder, NIT Durgapur; Dr. O. N. Tiwari and Dr. Dolly WattalDhar, IARI-New Delhi	Research
IIT Madras Chennai, India	Nonlinear Dynamics and Chaos, and their Applications to Two-Phase Systems; Modeling and Nonlinear Dynamics of Bubble Growth and Collapse	Prof. S. Pushpavanam Swapan Paruya	Joint implementation of R&D projects and Joint Supervision
Lappeenranta University of Technology, Finland	Sustainable Technology development	Prof. P. Pal & Prof. M. Roy (MS)	Research
Masdar Institute of Science and Technology, Abu Dhabi United Arab Emirates	Wastewater Treatment	Dr. Jaya Sikder	Research, Joint Publications
National Institute Technology Agartala	Biofuel from microalgae	Dr. Gopinath Halder, NIT Durgapur; Gayen K., NIT, Agartala	Research
North East Institute of Science and Technology	Biopigments extraction	Dr. Gopinath Halder, NIT Durgapur; Borah J., NEIST, Jorhat, Assam	Research
North Eastern Hill University Shillong	Bioremediation of coalmine wastewater	Dr. Gopinath Halder, NIT Durgapur; Joshi S.R., NEHU, Shillong	Research
University of Calabria, Italy	Membrane Synthesis, Wastewater treatment, Biofuel production Photocatalysis	Dr. Jaya Sikder	Joint PhD guidance, Joint publications (MoU signed)
University of Miami Coral Gables, FL, USA	Large-scale optimization methods; Nonlinear programming	Prof. S. S. Rao Swapan Paruya	Joint implementation of R&D projects and Joint Supervision
Zurich University of Applied Science, Switzerland	Genetic manipulation of microalgae for enhanced lipid productivity	Dr. Gopinath Halder, NIT Durgapur; Prof. Lukas Neutsch, ZHAW (Zurich University of Applied Sciences, Switzerland)	Joint Research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Faculteit Industriele Ingenieurswetenschappen, KU Leuven, Campus Groep T Leuven, Leuven, Belgium	Pollution abatement	Dr. Susmita Dutta, NIT Durgapur; Dr. Abhishek Dutta (Faculteit Industriele Ingenieurswetenschappen, KU Leuven, Campus Groep T Leuven, Leuven, B-3000, Belgium)	Joint Research and publication

Department of Chemistry

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Institute of Mining & Fuel Research, Dhanbad	Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules	Panja S.S and Ghosh A. K.	Spectroscopic study of Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules.
Civil Engineering Department North Dakota State University, USA.	Water and Wastewater Treatment	Bezbaruah A. N. Saha R.N.	Research on "Synthesis of Advanced Nano-materials and their Application for the Reduction of Environmental Contaminants"
Colloids and Materials Chemistry Department, CSIR-IMMT, Bhubaneswar, Odisha	Environmental Application of Nano Materials	Chatterjee Sriparna, Saha R. N.	Joint Supervisor for PhD Work, Paper publication
CSIR-CMERI	Designing and investigating the effect of organic corrosion inhibitors	Banerjee, P., and Sukul, D	Publication of papers
CSIR-CMERI	Arsenic removal	Ruj Biswajit Debbarma Swarup Ranjan & Saha R. N.	Joint Supervisor for PhD Work, Paper publication
Department of Chemistry University of California, Davis, CA 95616, USA	Single Crystal X-ray Crystallography	Prof. Marilyn M. Olmstead Patra A.K.	Single crystal X-ray Diffraction studies on the metal complexes with supporting Schiff base, Amide ligand
Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata, India	Crystal structure determination	Partha Mitra Patra A.K.	Single crystal X-ray Diffraction studies on the metal complexes with supporting tridentate Schiff base ligand
Dept. of Chemistry, Cotton College, Assam	Development of natural fibre reinforced polyester composite material	Choudhury S. Panja S. S.	Jointly supervising PhD student
Dept. Of Environmental Science, The University of Burdwan, West Bengal	Water and Wastewater Treatment	Gupta S. and Saha R. N.	Joint Research in the areas on Environmental monitoring and wastewater treatment
IISc Bangalore	Development of Microwave absorber	Dr. Suryasarathi Bose and Dr. S. S. Panja	Collaborative research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Institut des Matériaux Jean Rouxel, Université de Nantes, UMR CNRS 6502, 2 rue de la Houssinière, BP 32229, 44322 Nantes, France	Use of DFT Calculation in our research area	Dr. S. C. Moi & Prof. Xavier Rocquefelte Institut des Matériaux Jean Rouxel, France	Collaboration for DFT calculation using different Software
Institute of Chemical Technologies and Analytics, Vienna University of Technology, Getreidemarkt, 9/4. 1060 Vienna, Austria, Europe	X-ray structures were determined	Dr. S. C. Moi & Prof. Frank Kubel, Institute of Chemical Technologies and Analytics, Vienna University of Technology	X-ray structures were determined from his Lab. One research has been published in SCI Journal
Johannes Kepler University, Linz	Synthesis of Schiff base ligands and their application	Saha T. K and Monkowius U	Chemical sensing of various analytes by Schiff base ligands
Microbiology Research Unit, Parasitology Research Laboratory, Department of Zoology, The University of Burdwan, Burdwan-713104, West Bengal, India	Biological activities of the synthesized metal complexes	Chandra Goutam	Antibacterial and other biological studies on synthesized metal complexes of various Schiff base and amide ligands
Raghunathpur College	Synthesis and characterisation of Coordination compounds	Bhaskar Biswas	Paper publication and guiding Ph.D. students
Vienna University of Technology	Kinetics and inorganic reaction mechanism	Linert W.Moi S.C.	Biomolecular substitution kinetics in 4d8 and 5d8 metal ion system
Vienna University of Technology, Applied Synthetic Chemistry Dept. Vienna, Getreidmarkt 9/163, Vienna Austria, Europe	Kinetics and mechanism of substitution reaction on d8 metal ion systems	Prof. Wolfgang Linert, Dept. of Applied synthetic Chemistry	8 research papers has been published in SCI Journals

Department of Civil Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CSIR-CMERI, Durgapur	Structural Health Monitoring	Datta, A..K. and Topdar, P.	Research
Department of Civil and Environmental Engineering, University of Surrey, UK	Pipe-soil I interaction, Offshore pipelines	Roy, P.	Research
IIEST Shibpur	Vibration, control & anti-control vibration using time delayed feed-back	Mitra R K, Banik, A.K. Chatterjee, S. (IIEST), Datta, T K (IIT Delhi)	Research

Department of Computer Science and Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Claude Bernard University of Lyon 1, France	Agent and Multi Agent System	Dutta, A. (Dept. of CSE, NIT Durgapur), Aknine, S. (Claude Bernard University of Lyon 1, France)	Joint Research work with PhD student
CMERI, Durgapur	ElectrohydrodynamicInkjet Printing	Murmu, N.C., CSRI-CMERI, Durgapur; Kisku, D.R., NIT Durgapur	Academic Research & Development
IISc. Bangalore	Game Theory and Mechanism Design and its Applications.	Mukhopadhyay, S. (Dept. of CSE, NIT Durgapur), Narahari, Y. (Dept. Of CSA, IISc. Bangalore)	Game Theory Lab Visit and Research
Indian Institute of Engineering, Science and Technology, Shibpur	Cellular Automata, Computer Architecture	Dalui, M. (Dept. of CSE, NIT Durgapur), Sikdar, B.K. (Dept. of CST, IIEST, Shibpur)	Academic Research & Development
Indian Statistical Institute, Kolkata	Nanotechnology and Giga-scale integration Techniques	Dr. Debasis Mitra, Dept. of CSE, NIT Durgapur Prof. Bhargab B. Bhattacharya, ISI Kolkata	Joint Research
Indian Statistical Institute, Kolkata	Neural Networks and Evolutionary Computing	N R Pal, ECSU, ISI, Kolkata Tandra Pal, NIT Durgapur	Academic Research & Development
Indian statistical Institute, Kolkata	Video Document Analysis	Nandi, D. (Dept. of CSE, NIT Durgapur), Chakraborty, B. (Dept. of CSE, NIT Durgapur), Pal, U. (ISI Kolkata)	Joint Research
Indian Statistical Institute Bangalore	Semantic Web Technology	Dutta, A. (Dept. of CSE, NIT Durgapur), Dutta, B. (DRTC, ISI Bangalore)	Joint Research work with PhD student
ISCAP-Polytechnic of Porto, Portugal	Semantic Web and Linked Data Technology	Dutta, A. (Dept. of CSE, NIT Durgapur), Malta, C. M. (ISCAP-Polytechnic of Porto, Portugal)	Joint Research Project, PhD student
NITTTR Kolkata	Biometrics, Computer Vision	Gupta, P., NITTTR Kolkata; Kisku, D. R., NIT Durgapur	Academic Research & Development
Universitat Politècnica de Catalunya	Game Theory and Mechanism Design and its Applications.	Mukhopadhyay, S. (Dept. of CSE, NIT Durgapur), Xhafa, F.(Dept. Of Computer Science, UPC. Barcelona, Spain)	Joint Research
University of Calcutta	Research on Automated Healthcare System	Sarkar Anirban, NITD Chaki Nabendu, CU Choudhury Sankhayan, CU	Joint Research
University of Minho, Guimarães, Portugal	Semantic Web and Linked Data Technology	Dutta, A. (Dept. of CSE, NIT Durgapur), Baptista, A. A. (University of Minho, Guimarães, Portugal)	Joint Research Project

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
IIT Kharagpur	Power Electronics, Multilevel Converters	Banerjee S (NIT) Chakroborty C (IIT)	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Control Systems, Power Electronics	Banerjee S (NIT), Giri S (CMERI)	Joint Research

Department of Electronics and Communication Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Brno University of Technology, Brno, Czech Republic	Millimetre wave channel modelling	Chandra A.	External member of a Czech national project
Chang Gung University Taiwan	Memory Devices	Mahapatra R	Joint research
Slovak University of Technology, Bratislava, Slovakia	Modelling of optical communication channels	Chandra A.	Visiting fellowship
Texas A&M University, Doha, Qatar	Free space optics	Chandra A.	Joint research
University at Albany, State University of New York, NY, USA	Game theory for wireless communication	Chandra A.	Joint research
University of A Coruna, A Coruna, Spain	Mobile channel modelling	Chandra A.	Joint research
University of Liverpool, UK	GaN Power Electronics	Mahapatra R	Joint Research
University of Parma	Communication Engineering	Kundu S Dhar Roy S.	Joint Research
Vienna University of Technology, Vienna, Austria	Vehicular channel modelling	Chandra A.	Joint research

Department of Management Studies

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
LUT, Finland	Collaborative Research on Sustainable development	Prof. M. Roy	Research

Department of Mathematics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Jadavpur University, Kolkata	Nonlinear Dynamics	Pal, P, NIT Durgapur and Dana, S.K. of JU Kolkata	Joint Research
DR. SPM IIIT, Naya Raipur, India	Codes over rings	Bagchi, S, NIT Durgapur and Ramakrishna Bandi, IIIT, Naya Raipur	Joint Research
Indian Institute of Technology Kharagpur	Convective Instability	Pal, P, NIT Durgapur and Kumar, K. of IIT Kharagpur	Joint Research
ICBM, Carl von Ossietzky University, Germany	Nonlinear Dynamics	Pal, P, NIT Durgapur and Feudel, U. of ICBM, Germany	Joint Research
Jadavpur University, Kolkata	Functional Analysis	Dey, L.K., NIT Durgapur and Das, Pratulananda of Jadavpur University	Joint Research
University of Pristina-Kosovska-Mitrovica, Serbia	Fixed Point Theory	Dey, L.K., NIT Durgapur and Djekic, D.D. of University of Pristina-Kosovska-Mitrovica	Joint Research
Dept of Mathematics Haldia Institute of Technology, East Midnapore, WB	Soft Computing	Panigrahi G NIT Durgapur and Jana Dipak HIT, Haldia	Joint Research
Dept of Operations Management TA PAI Management Institute,Manipal	Management	Panigrahi G ,NIT DGP and Chattrejee Debmalya	Joint Research
Department of Mathematics Sidhu Kanu Birsa University, WB	Soft Computing	Panigrahi G, NIT DGP and Dr. Barun Das	Joint Research
Department of Mathematics Mugberia College, East Midnapore, WB	Bio Mathematics	Panigrahi G NIT DGP and Dr. Kalipada Maity	Joint Research
University of Belgrade, Serbia			
Functional Analysis	Dey L.K., Damjanovic B., Radenovic S.	Joint Research	
King Mongkut's University of Technology Thonburi, Thailand	Fixed Point Theory	Dey L.K., Kumam P.	Joint Research
S.V.NIT Surat, India	Fixed Point Theory	Dey L.K., Gopal D.	Joint Research
Thapar University, India	Fixed Point Theory	Dey L.K., Chandok S.	Joint Research
University of North Bengal, India	Topological Fixed Point Theory	Dey L.K., Singha, M.	Joint Research
Tsinghua University, Beijing, China	Uncertainty Theory	Kar S. and Baoding Liu	Joint Research
Tianjin University, Tianjin, China	Financial Modelling	Kar S. and Xiaowei Chen	Joint Research
Graduate Technological Educational Institute of Western Greece, Greece	Fuzzy Logic and modelling	Pal A. and M. Voskoglou	Joint Research
Aliah University, Kolkata	New Topological Indices of Graphs	Pal, A., NIT Durgapur and Nayeem, S.M.A.	Joint Research
IIFT Kolkata	Green Supply Chain Management	Pal, A., NIT Durgapur and Das, P.K	Joint Research
Narajole Raj College. Medinipore	Graph Theory	Pal, A., NIT Durgapur and Rana, A.	Joint Research
Uludag University, Turkey	Graph Theory	Pal A. and I. N Congul	Joint Research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CIEM, Kolkata	Computational Graph Theory	Pal A. and Nilanjan De	Joint Research
Om Dayal Group of Institutions, Howrah.	Fuzzy Graph	Pal A. and Dhrubajyoti Ghosh	Joint Research
Viswa Bharati, Shantiniketan	Probability Distribution	Dr. S. Sarkar (Mondal) & Dr. S.S. Maiti	Joint Research
Mahadevananda Mahavidyalaya, Monirampore, Barrackpore, WB	Eco-epidemiological models with chaotic dynamics	Dr. S. Sarkar (Mondal) , Dr. K.P. Das & Dr. P. Karmakar	Joint Research
Gobinda Prasad Mahavidyalya, Bankura	Operations Research	Basu, K., NIT Durgapur and Sathi Mukherjee	Joint Research
IIT Jammu & Kashmir	Cryptography	Basu, K., NIT Durgapur and Vishal Saraswat	Joint Research

Department of Mechanical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CMERI Durgapur, India	Micro end milling	Puri A. B., NIT Durgapur, Nagahanumaiah, CMERI	Joint Research
CMERI, Durgapur, India	Heat Transfer	Pramanick, A. K., NIT Durgapur, Chatterjee, P. K., CMERI Durgapur	Student Exchange
DRDL Hyderabad, India	Manufacturing Automation	Hui N. B., NIT Durgapur , Podder B., DRDL Hyderabad	Joint Research
Duke University, USA	Classical Thermodynamics	Pramanick, A. K., NIT Durgapur, Bejan, A., Duke University	Pedagogy
IISc. Bangalore, India	Evaporation of sessile droplet	Dr. Shantanu Pramanik, NIT Durgapur and Dr. Saptarshi Basu, IISc Bangalore	Joint research
IIT Kharagpur, India	Droplet Dynamics	Pramanick, A. K., NIT Durgapur, Bandyopadhyay, P. P., IIT Kharagpur	Joint research
Jadavpur University, India	Heat Transfer	Pramanick, A. K., NIT Durgapur, Kundu, B., Jadavpur University	Joint research
University of Stuttgart, Germany	Aerospace Thermodynamics	Pramanick, A. K., NIT Durgapur, Weigand, B., University of Stuttgart	Student & Faculty Exchange

Department of Metallurgical and Materials Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CSIR-National Metallurgical Laboratory, Jamshedpur	Metal casting and Forming, Semi solid processing	Dr. Mandal D. & Dr. Sahoo K. L (CIR-NML, Jamshedpur)	Research, Joint PhD Project Work
CSIR-National Metallurgical Laboratory, Jamshedpur	Mechanical Metallurgy, Low cycle Fatigue	Dr. Mandal .D & Dr. Bar H.N (CSIR-NML, Jamshedpur)	Research, Joint M.Tech student

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
IIEST Shibpur	Material Science	Dr. S. Bera & Dr. A. Sinha (IIEST Shibpur)	Research, Joint M.Tech student
CGCRI Kolkata	Material Engineering and Mechanical Behaviour	Prof. Ghosh K.S & Acharya, Saikat Dev CGCRI, Kolkata	Joint Research, Work
CSIR-CMERI	Wear-resistant applications	Dr. B.K.Show	Joint Project by DST

Department of Physics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CSIR-CMERI Durgapur	Polymer Nanocomposites	Meikap A. K.	Joint Research/ Joint PhD Guidance
Technology Center of Nagasaki, Japan	Polymer Nanocomposites	Meikap A. K.	Joint Research
University of Ottawa, Canada	Polymer Nanocomposites	Meikap A. K.	Joint Research
Burdwan University	Nanomaterials	Meikap A. K.	Joint Research/ Joint PhD Guidance
Pondicherry University	Ferroelectric Composites	Meikap A. K.	Joint Research
Burdwan University	Electronics and Communication	Mondal M.K.	Joint Research
Burdwan University	Nonlinear Optics	Kumbhakar P.	Joint Research/ publication of paper
Rice University, USA	Nanotechnology	Kumbhakar P.	Joint Research/ publication of paper
University of Lucknow, Lucknow	Nanotechnology	Kumbhakar P.	Joint Research/ Publication of paper
CSIR-CGCRI, Kolkata	Photonics	Kumbhakar P.	Book (Editing under progress)
Visva-Bharati University, Shantiniketan	Theoretical High Energy Physics	Chakraborty A.K.	Joint Research project
Bose Institute, Kolkata	Carbon nanomaterial characterisation	Chakraborty A.K.	Collaborative research
IIT, Kharagpur	Nanomaterials & nanocomposites	Chakraborty A.K.	Nanocomposite characterization
Jagadish Bose National Science Talent Search (JBNSTS), Kolkata	Lead free solder joint interface	Chakraborty A.K.	Joint PhD student
CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi	Electrochemistry	Chakraborty A.K.	Visit of PhD student for three months
EMPA, Swiss Federal Laboratories for Materials Science & Technology	Graphene reinforced Epoxy composites	Chakraborty A.K.	Joint PhD program through a MOU
Sikkim Manipal Institute of Technology (SMIT), Majitar, Sikkim	Graphene based gas sensors	Chakraborty A.K.	Joint PhD student

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
The Open University, Milton Keynes, UK	Graphene based solar cells	Chakraborty A.K.	Several PhD student exchanges
University of Kalyani	Characterisation of nanostructured materials	Chakraborty A.K.	Materials characterization
University of Liverpool, United Kingdom	Photoelectrochemical water splitting for hydrogen evolution	Chakraborty A.K.	Joint research project, student and staff exchange
National Institute of Technology, Raipur	Condensed Matter Physics	Sahoo S.	Joint Research
Utkal University, Bhubaneswar	Theoretical High Energy Physics	Sahoo S.	Joint Research
TDB College, Raniganj	Nuclear Physics	Sahoo S.	Joint Research
Regional Institute of Education, Bhubaneswar (NCERT)	Nuclear Physics, Physics Education & General Physics	Sahoo S.	Joint Research
Federal University of São Carlos, Brazil	Nanoelectronics	Mondal A	Sample characterisation,joint research
IIT Bombay	Characterization of InN NWs	Mondal A	Joint Research
National Institute of Technology, Nagaland	Nanotechnology	Mondal A.	Joint Research
Saha Institute of Nuclear Physics	Nanotechnology	Mondal A.	Joint Research
University of Nottingham, UK	Nanoelectronics	Mondal A.	Sample characteri-zation, joint research
CSIR-CMERI, Durgapur	Multiferroics materials	Basu S.	Joint Research
IACS, Kolkata	Nanomaterials, Multiferroics	Basu S.	Joint Research
Saha Institute of Nuclear Physics, Kolkata, India	Nonlinear Analysis (Power Spectrum and Wavelet Analysis) of Geochemical Precursory Signals for earthquakes	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Trofimuk Institute of Petroleum Geology and Geophysics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia	Study on Earthquake Precursory signals	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Federal Research Center "United Geophysical Service" of the Russian Academy of Sciences, Kamchatka branch (KB GS RAS)	Geochemical effects of strong earthquakes	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Tomsk Polytechnic University (TPU)	Geochemical effects of strong earthquakes	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
China University of Geosciences, School of Geophysics and Information Technology	Geochemical effects of strong earthquakes	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Institute of Crustal Dynamics, China Earthquake Administration	Geochemical effects of strong earthquakes	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Far Eastern Federal University, Vladivostok, Russia & NIT Durgapur, India	Extraction of metals from fly ash	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Russian Academy of Sciences Far Eastern-Branch Institute of chemistry	Treatment process of the electroplating industry sewage	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Harbin Engineering University	Treatment process of the electroplating industry sewage	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Engineering School of Natural Resources, National Research Tomsk Polytechnic University	Environmental geochemistry and treatment of organic pollutants in aquatic systems	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
East China University of Technology (ECUT), School of Water Resources and Environmental Engineering	Environmental geochemistry and treatment of organic pollutants in aquatic systems	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Tomsk Branch of Trofimuk Institute of Petroleum Geology and Geophysics of Siberian Branch Russian Academy of Sciences	Environmental geochemistry and treatment of organic pollutants in aquatic systems	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Federal University of Rio de Janerio, Brazil	Water management and wastewater treatment	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
University of Twente (UT), Netherlands	Wastewater treatment	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Technical University Delft (TUD), Netherlands	Wastewater treatment	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Fraunhofer Institute for Ceramic Technologies and Systems IKTS (IKTS), Germany	Wastewater treatment	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication
Universidad Autónoma de Madrid (UAM), Spain	Wastewater treatment	Chaudhuri H.	Collaborative Research and Joint Research Proposal and Joint Publication

6.0 The Council, BOG and Other Committees

6.1 Institute's Council

Vide Annexure - 11.1

6.2 Board of Governors

Vide Annexure - 11.2

6.3 Finance Committee

Vide Annexure - 11.3 (a)

6.4 Building and Works Committee

Vide Annexure - 11.3(b)

6.5 Other Committees

Senate

Vide Annexure - 11.3(c)

7.0 Concessions for SC, ST and Handicapped Students

The Department of Training, Placement, and Students' Welfare helps the students get Railway Concessions during their vacations.

Tuition fee waiver is given as per Govt. Rule.

7.1 Concessions Provided for Students

8.0 Financial Status

8.1 Analysis of Plan and Non-Plan Grants (2017-2018)

Plan (General Component) Grants – Rs. 9193.00 Lakhs

Non-Plan (Recurring) Grants – Rs. 7741.00 Lakhs

8.2 Sources of Funds

Entire Recurring and Non-Recurring Grants are borne by Govt. of India

8.3 Expenditure Position for Last Few Years

8.4

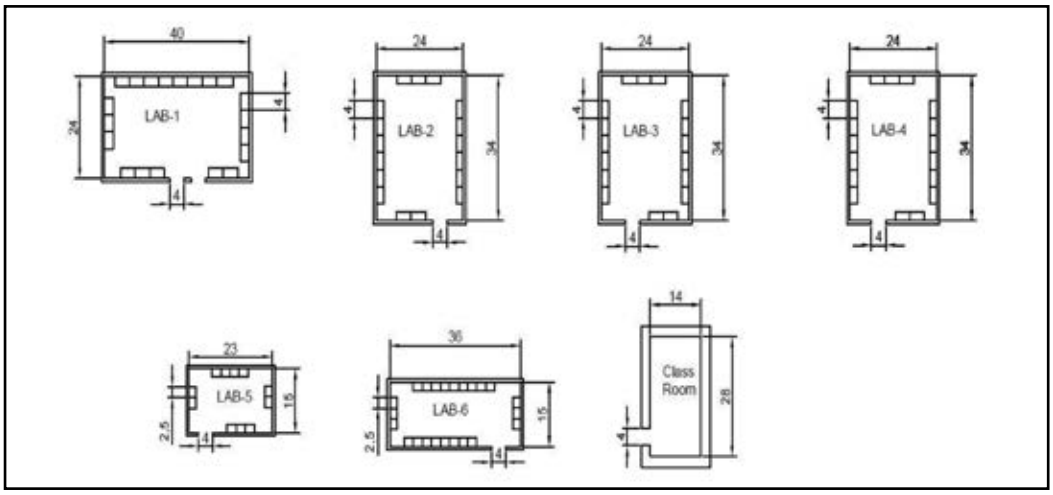
(Rupees in Lakhs)

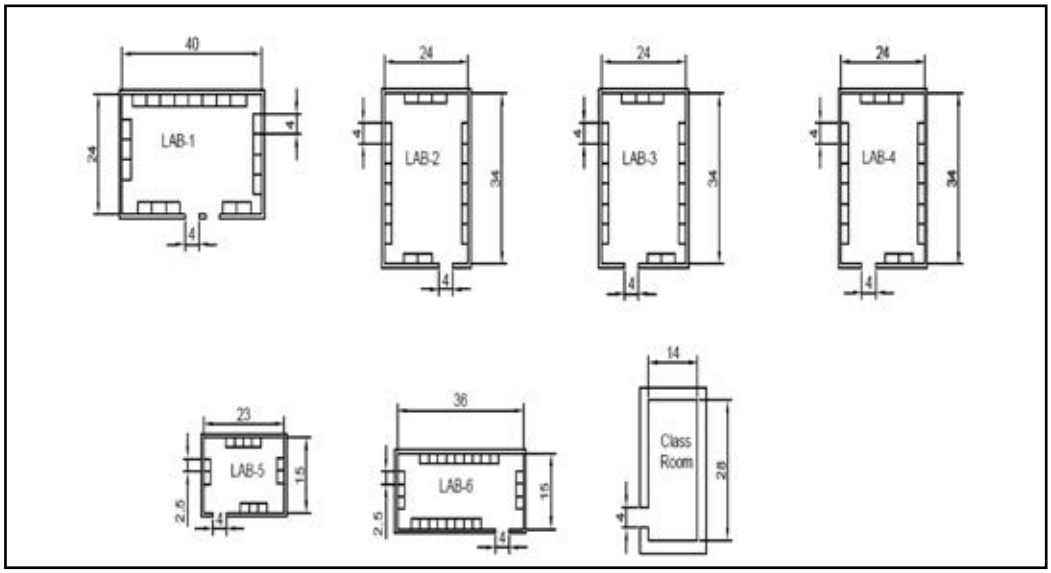
Plan head Expenditure		Non-Plan head Expenditure	
2012-13	4050.00	2012-13	6101.14
2013-14	5058.03	2013-14	7296.61
2014-15	2495.36	2014-15	7573.72
2015-16	4750.82	2015-16	9028.35
2016-17	6404.46	2016-17	11188.98
2017-18	6414.45	2017-18	12423.47

9.0 Central Facilities and Services

9.1 Computer Centre

Sl. No.	Name of the Lab	Area of the Lab
1.	Lab-1	24'X40'
2.	Lab-2	34'X24'
3.	Lab-3	34'X24'
4.	Lab-4	34'X24'
5.	Lab-5	23'X15'
6.	Lab-6	36'X15'
7.	Class Room	28'X16'





Sl. No.	Name of the Lab	Number of System (PC)	Configuration of the System	Software
1.	Lab-1	40 nos. (33 nos. running)	Dell Optiplex 755 Core2 Duo : 1.80GHz, 1 GB RAM (+ 1GB later) & Dell Optiplex 755 Core2 Vpro : 3.0 GHz, 2 GB RAM --- 32 Nos Lenovo Thinkcentre Core i5 Vpro (3.3 GHz; 2GB RAM) ---- 8 Nos.	Windows 10, Office 2013, Turbo C.
2.	Lab-2	30 Nos. (28 nos. running)	Lenovo Thinkcentre Core i5 Vpro (3.3 GHz; 2GB RAM)	Windows 10, Office 2013, Turbo C++, Auto CAD (Free).
3.	Lab-3	30 Nos. (29 nos. running)	Lenovo Thinkcentre Core i5 Vpro (3.3 GHz; 2GB RAM) --- 15 Nos. & HP Elite Desk 800G – Intel core i5; 3.5 GHz; 4 GB RAM --- 15 Nos.	Windows 10, Office 2013, Turbo C++, Auto CAD (Free)
4.	Lab-4	30 Nos. (29 nos. running)	HP Elite Desk 800G – Intel core i5; 3.5 GHz; 4 GB RAM	Windows 10, Office 2013, Turbo C++, MatLab-2016, Ansys
5.	Lab-5	09 Nos.	HP Elite Desk 800G – Intel core i5; 3.5 GHz; 4 GB RAM	Windows 10, Office 2013, Turbo C++.
6.	Lab-6	NIL	NIL (22 desktops can be	NIL

9.2 Workshop

The Department of Workshop of the Institute is a cluster of eight shops, namely (1) Machine Shop, (2) Fitting Shop, (3) Electrical Shop, (4) Carpentry & Pattern Shop, (5) Black Smithy Shop, (6) Welding Shop, (7) Sheet Metal Shop and (8) Foundry Shop, clustered in five different sheds. Training to all UG students of first year is provided through these shops in accordance to UG Curricula which include Workshop classes for all branches of engineering at different levels. The Workshops are modernised periodically by utilizing the grants provided to it under different scheme to update the training. Some departments also use workshop for advance training on machineries and processes. Students from all the departments utilize the workshop facilities for their Project works in undergraduate and postgraduate level. The students are encouraged to use the facility to make fabrications and prototypes of different levels of technical competitions.

9.3 Library

The Library as one of the important central facilities of the Institute supports the study, teaching, research, and development programmes of the Institute. It is housed in a separate building having three floors on a plinth area of 1000 sq. mtrs. The library has a collection of 1,65,746 volumes, which includes text books, reference books & bound volumes of Journals, Standards etc. The library subscribes to about 110 current Journals (Subscribed & Gifted). Library operations have been automated with the help of an integrated library management software package, LIBSYS-4. The book database is accessible through OPAC (Online Public Access Catalogue). It has good collection of references books related to all branches of the Institute. It has a good collection of electronic resources in its Digital Library. It is an open access library and remains open from 8:30 A.M. to 9:30 P.M. on weekdays and from 9 A.M. to 5 P.M. on Saturdays and Sundays, during vacation 8:30 A.M. to 5:30 P. M. (on Institute holidays remain closed). Library has introduced Wi-Fi facility in the reading halls to access e-resources.

The library has a well-equipped photocopying facility. The users can avail of this facility on payment of a nominal charge. It has also some Audio-Visual equipment like Colour TVs, VCPs, Video Cameras, Direct Projectors, Multimedia Projectors, etc. It has also a good IT infrastructure.

The library is an institutional member of DELNET (Developing Library Network), and NPTEL (National Programme on Technology Enhanced Learning).

It is also a beneficiary member of eSS (e-SodhSindhu) previously known as INDEST-AICTE (Indian National Digital Library in Engineering, Science & Technology) which provides Desktop Access to high quality e-resources (online journals and databases).

E-Journals/Databases through e-SodhSindhu (2017) are as follows:

Sl. No.	Name of Resource	Sl. No.	Name of Resource
1	ACM Digital Library	9	IEEE (IEL Online) Level-2
2	American Institute of Physics (AIP) journals	10	Institute for Studies in Industrial Development (ISID) Database
3	American Physical Society (APS)	11	JGate Plus (JCCC)
4	ASCE Journals Online	12	JSTOR
5	ASME Journals Online	13	Nature Journal
6	ASTM Standards	14	Oxford University Press
7	Emerald 298 Journals Collection	15	Science Direct Content Fees (CFTIs)
8	Economic & Political Weekly	16	Web of Science Lease Access

Library individually subscribed many important journals and databases for the year 2017. They are as:

1. E-Journals

Sl. No.	Name of Resource	Sl. No.	Name of Resource
1	Elsevier -Science Direct (11 Subject Collection)	6	Royal Society of Chemistry (RSC Gold EA)
2	Wiley Online (24 Journals),	7	Springer 1400+
3	Emerald Journals	8	PNAS Tier - 3
4	IEEE SWEBOK Course Content	9	Sage iMeCHe - Material Science & Engineering & Management & Org. Studies
5	Indian Standards (BIS Code)	10	Taylor and Francis (4 Subject Collection)

2. Databases & Tools

Sl. No.	Name of Database/Tools
1	Elsevier -SCOPUS
2	PROWESS Database (CMIE)
3	Project Muse
4	Mathscinet
5	iThenticate (Anti-plagiarism/Similarity measure tool
6	Grammarly (Writing tool)

Library subscribes e-Books from different leading publishers:

1. Oxford e-Book collection for Mathematics and Physics,
2. Springer e-Book collection, LNCS (Lecture Note in Computer Science) from 1973 to 2016
3. Elsevier e-Books
4. CRC Press

Collections:

Total collection of Books, Print journals, etc. are as below (up to 31.03.2018):

(i) Collection	General Book	119896
	Book Bank	40464
	Bound Vol. of Journals	7744
	SC/ST	934
	ISI	5072
	Gift	4356
	Misc.	1485
	TEQIP Books	4244
	Total Collection	**1,84,195**
(ii) Print Journals	Purchased Journal	57
	Gifted	53
	Total	**110**

9.4 Laboratories

All departments have well equipped laboratories which cater to the hands on training to the under graduate as well as postgraduate students. The laboratories are also regularly used for carrying out projects and research works. List of the laboratories of various departments are given in Annexure–11.13.

9.5 Hospital, Post Office and Shopping Centre

The Institute has a medical unit-cum-hospital with outdoor and indoor (10 beds) facilities. It is served by two full-time general physicians and supported by part-time specialist physicians; one cardiologist (twice a week), one paediatrician (once a week), one gynaecologist and obstetrician (once a week), one ENT (once a week), one ophthalmologist (once a week) and one dentist (once a week). All faculty members, staff members and their families as well as the students are benefited from the medical unit. The medical unit provides 24 hours emergency service with a well equipped ambulance at its disposal. Inside the campus there is a Post Office catering to the needs of the institute and residents of the campus. There is a shopping complex inside the campus which includes a ration shop, a milk booth, one book shop and some shops providing essential commodities.

9.6 Physical Facilities

The Institute has branches of State Bank of India, Canara Bank and SBI ATM in the campus. The Institute also has two canteens and one cafeteria near the students' hostels. Three playgrounds and gymnasium are used regularly by the students and residents of the campus. For the recreational facilities of the faculties and staff there are two clubs namely, Faculty Club and Staff Club. The clubs regularly organise cultural programmes, games and sports for the members. A higher secondary school is also located in the campus.

9.7 Games & Sports Facilities

The Institute has Students Activity Centre (SAC) housed in an indoor auditorium, where all the indoor games like badminton, table tennis and chess are played round the year. Three gymnasiums (Separate for boys, girls and guests) have 12 to 16 station exercise machine such as multi-station gym with latest equipments. In the central playfield, The Oval, all major tournaments and matches are played in games like football, cricket, athletics etc. Besides there is one more ground called The Lords adjacent to the hostels, all major non sports activities as well as sports activities are organized in regular manner. There is one concrete tennis and basketball court each and two volleyball court with flood light facilities. All the hostels have their own volleyball & concrete Badminton courts with indoor games facilities like Table Tennis & Carrom boards.

9.8 Other Facilities like Hostels, Messes and Staff Quarters

1. The Institute has eight boys' hostels and four hostels for girls' students. Each hostel has a separate mess, managed and run by the members of the mess committee comprising of the students under the supervision of the Mess Managers/Matrons and overall guidance of the Wardens of the respective hostels. The Institute provides different categories of residential quarters to the faculty, staff and administrative personnel on licence fee basis. One multi-storeyed accommodation (G+8) for faculty members is completed consisting of 32 numbers of quarters. The construction of Prof. S. N. Ray memorial building is completed. Academic Block has also been inaugurated and 4 number 150 seated auditorium are in use for 1st year students. All other auditoriums and class rooms will be ready soon. Expansion and renovation work of Institute Medical Unit cum Hospital is completed. Widening of Road and construction of Drainage network is completed. Construction of New Market Complex is also completed. Newly constructed Chemistry Laboratory-cum-Biotechnology Department and New Guest House are operational. Construction of a 1500 capacity Auditorium is in progress.

10. Notable Past Achievements

- The Institute, since starting off in 1960 with only four branches of Engineering for UG studies and a handful of buildings and quarters, has made tremendous overall development and achieved the status of Institute of National Importance. Some major achievements are listed below:
- In all, 9 B. Tech. programmes in Engineering, 21 M. Tech. programmes, 3 M. Sc. programmes, MCA and MBA programmes are running successfully.
- Many students have won national and international recognition as teachers, industrialists and entrepreneurs in various leading organisations.
- A large number of new laboratories have come up over the years for UG and PG students, Research Scholars and the faculty members of the Institute.
- The Institute was elevated to the National Institute of Technology with Deemed University status.
- NIT Durgapur was declared "Institute of National Importance" by the Government of India.
- The Institute successfully participated in the World Bank assisted TEQIP phase I and II as lead institution.
- Many faculty members have achieved distinction in the field of research by way of publishing papers in peer-reviewed journals and also received best paper awards. Many of them also have the honour of acting as reviewers of international journals.
- The Institute is a QIP Centre for M Tech programmes for faculty members of the polytechnic institutes and PhD programmes for all faculty.
- Under the Centre of Excellence Scheme of the MHRD, Govt. of India, state-of-the-art research laboratories have been set up with modern equipment.
- Many faculty members have served outside organisations and Institutes in the capacity of advisors, consultants and experts of various technical committees.
- NIT Durgapur implemented reservation for OBC students (27%) completely.
- Collaborative activities are in progress with CERN Geneva, NUS Singapore, Caledonian College of Engineering Muscat and a number of premier universities abroad. Faculty exchange, visits of delegation, students' internship and collaborative research have been taken up.
- The Ministry of Steel, GOI, has instituted a Ministry of Steel Chair Professor and has been sponsoring five scholarships to UG students.
- NIT Durgapur mentored NIT Arunachal Pradesh and GKCIT, Malda.
- The B Tech and M. Tech programmes of various departments are accredited by NBA committee.
- A patent cell has been formed to look after the potential patentable data generated in various departments of the institute.
- S N Roy Memorial building, New Guest house and New Academic building have been inaugurated. Six students' hostels are renovated.
- As a part of the lecture series "Beyond the Walls" organized by NIT Durgapur Alumni Association, seven distinguished alumni members delivered lectures on various topics in the institute. The alumni members acted as resource persons in various workshops and short term courses organized by the Institute.
- The projects namely, 1250-seated Boys' Hostel and Auditorium are in progress. The New Guest House and 500-seated Girls' Hostel have recently been completed.

Achievements in 2017 -2018

- The curricula for the B. Tech. and dual degree M. Tech. programmes were thoroughly revised to incorporate more choice and flexibility and inter-disciplinary approach.
- The Institute has been actively participating in the TEQIP-III program, after successful completion of TEQIP-II, a World Bank assisted programme for improvement in quality of technical education and research.
- Collaborative activities are in progress with CERN Geneva, and a number of premier universities abroad. Collaborative activities are also in progress with various premier academic and research institutes of India. Faculty visits, students' internship and collaborative research have been taken up. Four pre-final year students did the summer internship at CERN, Geneva.
- The faculty members of the Institute have publication and acceptance of 568 research articles/reviews in peer-reviewed journals, and also published 345 papers in proceedings of national and international conferences in 2017-18.
- 101 sponsored projects are being executed by the faculty members during the financial year.
- Sixty four PhD degrees were awarded by the Institute in 2017-18.
- Faculty members acted as reviewers for 261 peer-reviewed journals.
- 539 (UG & PG) students were placed through in-campus interviews in the session 2017-2018. In addition to that 65 (UG & PG) students secured more than one job. In 2017-18, 171 companies visited the campus including most of the global players.
- More than 30 workshop/short-term courses and conferences were organized by various departments of the institute.
- Six GYAN courses were organized by the institute.
- The construction of a 1250-seated Boys' Hostel was nearly completed.
- NIT Durgapur is a member institute of BRICS Network University Programme under the thematic area "Water Resources and Pollution Treatment". NIT Durgapur also received a grant from DST, Govt. of India for a collaborative research project with TPU, Russia and ECUT, China.
- NIT Durgapur has been an active member of Unnat Bharat Abhiyan, the flagship programme of MHRD, since its inception.
- NIT Durgapur has been working as a mentoring institute for Rashtriya Avishkar Abhiyan for the state of West Bengal. Along with local science organizations, it developed a few portable experimental kits for school level experiment on basic sciences.
- The 13th Convocation of the Institute was successfully organized on April 02, 2018. 812 B Tech., 299 M Tech., 27 MBA, 63 MCA, 29 MSc and 57 PhD degrees were awarded.

Games & Sports

1. Yoga (Women) Secured Third Position in All India Inter NIT Meet held at NIT Agartala.
2. Yoga (Men) Secured Third Position in All India Inter NIT Meet held at NIT Agartala.
3. Track & Field won several Medals in All India Inter NIT Meet held at NIT Jaipur.

Annexure –11.1 Institute's Council

NIT COUNCIL (as per statute)

- The Minister in charge of the Ministry or Department of the Central Government having administrative control of the technical education, ex officio- Chairman
- The Secretary to the Government of India in charge of the Ministry or Department of the Central Government having administrative control of the technical education, ex officio- Vice-Chairman
- The Chairperson of every Board, ex officio
- The Director of every Institute, ex officio
- The Chairman, University Grants Commission, ex officio
- The Director General, Council of Scientific and Industrial Research, ex officio
- four Secretaries to the Government of India, to represent the Ministries or Departments of the Central Government dealing with biotechnology, atomic energy, information technology and space, ex officio
- The Chairman, All India Council for Technical Education, ex officio
- Not less than three, but not more than five persons to be nominated by the Visitor, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology
- Three members of Parliament, of whom two shall be chosen by the House of the People and one by the Council of States (Provided that the office of member of the Council shall not disqualify its holder for being chosen as or for being, a member of either House of Parliament)
- Two Secretaries to the State Government, from amongst the Ministries or Departments of that Government dealing with technical education where the Institutes are located, ex officio
- Financial Advisor, dealing with the Human Resource Development Ministry or Department of the Central Government, ex officio
- One officer not below the rank of Joint Secretary to the Government of India in the Ministry or Department of Central Government having administrative control of the Technical Education, ex officio - Member-Secretary

Annexure-11.2 Board of Governors (as per NIT Act, 2007 (29 of 2007)

Sl. No.	Nomination Under	Name and Designation of nominated Member	Serve as
01.	Section 11 Clause (a)	Prof. Anupam Basu Chairperson, Board of Governors, National Institute of Technology, Durgapur Durgapur-713209	Chairperson
02.	(b)	Prof. Anupam Basu Director, National Institute of Technology Durgapur Durgapur-713209	Member
03.	(c)	Shri Sanjeev Sharma Director (NITs) Deptt. of Higher Education, Ministry of Human Resource Development, Shastri Bhavan, New Delhi-110115	Member
04.	(c)	Mrs. Darshana M Dabral JS & FA (IFD) Ministry of Human Resource Development, Deptt. of Higher Education, Shastri Bhavan, New Delhi-110115	Member

Sl. No.	Nomination Under	Name and Designation of nominated Member	Serve as
05.	(d)	Mr. Sanjay Jhunjhunwala Chief Executive Officer, Mani Group, Kolkata	Member
06	(d)	Dr. D. K. Majumdar Former Professor (DIPSAR) University of Delhi, C-8,IDPL Apartments Plot No.-GH10, Sector 10A, Gurgaon-122001	Member
07.	(e)	Dr. Mitali Mukerji, Senior Principal Scientist CSIR, IGIB, New Delhi.	Member
08.	(e)	Dr. Jyotsna Dhawan, Chief Scientist, CCMB, Hyderabad	Member
09.	(f)	Prof. Parthapratim Gupta Professor, Department of Chemical Engineering, Department of Chemical Engineering, National Institute of Technology Durgapur	Member
10.	(f)	Dr. Suchismita Roy, Associate Professor Department of Computer Science and Engineering NIT Durgapur	Member
11.	(g)	Prof. Partha Pratim Chakrabarti Director, Indian Institute of Technology, Kharagpur India, Pin-721302	Member
12	Section 18 Clause (2)	Shri U.C. Mukherjee, Registrar(I/C), National institute of Technology Durgapur	Secretary

Annexure-11.3(a) Finance committee

1.	**Prof. Anupam Basu** Chairperson, Finance Committee, National Institute of Technology, Durgapur Durgapur-713209.	Chairperson
2.	**Prof. Anupam Basu** Director, National Institute of Technology, Durgapur Durgapur-713209	Member
3.	**Shri Sanjeev Sharma** Director (NITs) Deptt. of Higher Education, Ministry of Human Resource Development, Shastri Bhavan, New Delhi-110115	Member
4.	**Mrs. Darshana M Dabral** JS & FA (IFD), Ministry of Human Resource Development, Deptt. of Higher Education, Shastri Bhavan, New Delhi-110115	Member

5.	**Prof. Parthapratim Gupta** Member Professor, Department of Chemical Engineering, National Institute of Technology Durgapur Representative of BOG	Member
6.	**Shri U.C. Mukherjee** Registrar(I/C), National Institute of Technology Durgapur	Member Secretary

Annexure-11.3(b) Building and Works committee

1.	**Prof. Anupam Basu** Director, National Institute of Technology Durgapur Durgapur – 713 209	Chairman
2.	**Shri Sanjeev Sharma** Director (NITs), Ministry of Human Resource Development, Department of Education, Shastri Bhavan, New Delhi – 110001	Member
3.	**Shri A. K. Singh** The Director (F), Integrated Finance Department (IFD), of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi – 110001	Member
4.	Shri D.P. Konhar (Nominee of CPWD, Electrical Wing), Superintending Engineer (Electrical) Kolkata Central Electrical Circle-1	Member
5.	**Shri Satyaki Sen** Nominee of BOG, NIT Durgapur CJ 84, Sector – 2, Salt Lake City, Kolkata – 700 091	Member
6.	**Shri D. K. Ujjania** (Nominee of CPWD, Civil Wing) Superintending Engineer (Civil), Kolkata Central Electrical Circle – 1, Central Public Works Department (CPWD), 234/4, Acharya J. C. Bose Road, Kolkata – 700 020.	Member
7.	**Prof. K. Bhattacharya** Prof. of CE Department & Dean (P&D), National Institute of Technology Durgapur, Durgapur – 713 209.	Member
8.	**Shri U.C. Mukherjee** Registrar(I/C) National Institute of Technology Durgapur, Durgapur – 713209.	Member-Secretary

Annexure-11.3(c) List of Senate members

Name	E-Mail Address	Telephone
Prof. Anupam Basu Director and Chairman-Senate National Institute of Technology Durgapur Durgapur – 713 209	director@admin.nitdgp.ac.in	9434788001
BIOTECHNOLOGY		
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Prof A. Dey	apurbadey2003@yahoo.co.in apurba.dey@bt.nitdgp.ac.in	9434788098
CHEMICAL ENGINEERING		
Prof P Gupta Member Secretary, Senate	parthagupta2000@yahoo.com parthapratim.gupta@che.nitdgp.ac.in	9434788028
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Prof T Mandal,	tamal.mandal@che.nitdgp.ac.in	9434788078
Dr. Susmita Dutta, HoD	susmita.dutta@che.nitdgp.ac.in	9434788120
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COMPUTER SCIENCE AND ENGINEERING		
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HUMANITIES & SOCIAL SCIENCE		
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METALLURGICAL AND MATERIALS ENGINEERING		
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Dr. Sushanta Pramanik, HOD	susanta.pramanik@mme.nitdgp.ac.in	9434788183
PHYSICS		
Prof A K Maikap, Dean (R&C)	ajit.meikap@phy.nitdgp.ac.in meikapnitd@yahoo.com	9434788060
Prof. Pathik Kumbhakar, HoD	pathik.kumbhakar@phy.nitdgp.ac.in	9434788090

Annexure - 11.4(a) Ongoing sponsored projects

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Use of biological process for production and treatment of important chemicals	Aikat, K. and Chaudhuri, S.	NIT Durgapur (RIG)	20 lakhs	2014
Role of a novel signalling complex in regulating IL-13-induced 15 lipoxygenase expression in monocytes	Bhattacharjee, A.	DST–SERB	47.39 lakhs	2014
Role of 15-lipoxygenase in the pathogenesis of several diseases	Bhattacharjee, A.	Ramalingaswami Fellowship (DBT)	118.62 lakhs	2012
Fish fat transformation during processing, preservation, braising and its nutritional consequences in terms of food value*	Chakrabarty, J. and Bhattacharjee,A.	Department of Science and Technology, Government of West Bengal	32.18 lakhs	2017
Investigation of functional interrelations of bZIP transcription factors: ZBF2/ GBF1, HY5 and HYH of light signalling pathways in Arabidopsis thaliana	Chattopadhyay, S.	JC Bose National Fellowship (DST)	68 lakhs	2016
Program support on Genome engineering of tomato (Cloning and functional characterization of GBF1/ ZBF2 in tomato	Chattopadhyay, S. and Sharma, R.P. (University of Hyderabad)	DBT	98 lakhs	2016
Investigation of cross talk between MAP Kinase and light signalling pathways in Arabidopsis thaliana	Chattopadhyay, S. and Sinha, A.K., NIPGR, New Delhi	DST	37 lakhs	2016
Approaches for the enhanced production of rapamycin (sirolimus) by Streptomyces hygroscopicus MTCC 4003	Dey, A.	DBT	37.34 Lakhs	2016

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Microbial diversity in deep subsurface granitic rocks below the Deccan Traps at Koyna region, India	Kazy, S.K., NIT Durgapur	Census of Deep Life (CoDL), Deep Carbon Observatory, Carnegie Institute of Science, USA	16S rRNA gene sequencing project	2018
Microbiology of arsenic contaminated groundwater of Bengal delta plain: deciphering the role of subsurface microorganisms in As release and prospect for in situ remediation	Kazy, S.K., NIT Durgapur and Sar, P., IIT Kharagpur	Department of Science and Technology (DST), Govt. of India	~41 lakhs	2016
Microbiology of deep granitic subsurface of Koyna-Warna region	Kazy, S.K., NIT Durgapur and Sar, P., IIT Kharagpur	Ministry of Earth Sciences (MoES), Govt. of India	151.98 lakhs	2017
Enteropathogens dampen innate immune response through inhibition of macrophage functions	Mahata, N.	NIT Durgapur (RIG)	10 lakhs	2016
Evaluation of the role of Vitamin D in Obesity, Cardiovascular Disease and Diabetes using SiOx/TiO2 nanowire based sensor.*	Mondal, A., Ghosh, M., NIT Durgapur	DST-SERB	48.94 lakhs	2017
MCM3AP: A novel S phases replication checkpoint protein and its relation to Fanconi anemia protein	Mukhopadhyay, S.S.	SERB-DST Govt. of India	41.39 lakhs	2017
Engineering of cellulase enzymes of Aspergillus fumigates NITDGPKA3 for enhancing their activity	Mukhopadhyay, S.S., Aikat, K.; Bagchi, A. (University of Kalyani)	DBT-Govt. of India	37.63 lakhs	2017
FIST program, DST	Head, Biotechnology Department	DST-FIST	1crore 50 lakhs	2017

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST (Phase II)	All faculty members	DST	203 lakhs	2016
Abatement of Fluoride from Ground Water to Supply Safe Drinking Water to Rural People of West Bengal.	Dutta S., Adhikari, K.	DST, Govt. of West Bengal	12.37 lakhs	2013

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Phycoremediation of Cyanide from Coke-oven Wastewater and CO2 Sequestration from Waste gas using a Mixed Consortium of Green Algae and Cyanobacteria: An integrated approach	Dutta S., Dr. K. C. Ghanta	DST, Govt. of India	41.588 lakhs	2015
Reclamation of Steel Industry Wastewater through Phycoremediation Technique Using Microalgae and Assessment of Biofuel Production from Algal Biomass	Dutta, Susmita and Chakraborty, Jitamanyu	IMPRINT (Impacting Research Innovation and Technology) scheme of Ministry of Human Resources Development, Government of India	45.1152 lakhs	2017
Dispersion of modified Starch onto Polymer matrix towards Enhancement of its Biodegradability to reduce the Solid Waste Generation	Halder, Gopinath and Das, Bimal	DST-West Bengal	14.88 lakhs	2016
Optimization on Defluoridation of Contaminated Groundwater by Bioremediation and Biosorption in Integrated Packed bed Reactor	Halder, G.	DBT	25.22 lakhs	2014
Process Intensification of Biodiesel Synthesis From Non-Edible Oil Via Superheated Propanol Injection Technique	Halder, G.	DST-SERB	31.51 lakhs	2017
Hetero-Structured nanocomposite Photo Catalyst with enhanced capability for the selective conversion of CO2 to Methanol under Visible Light	Mandal, M. K	UGC-DAE Consortium for Scientific Research (UGC-DAE CSR) Kalpakkam Node		2017
Targeting the elimination of antineoplastic compounds in hospital wastewaters: novel frontiers in sustainable treatment	Mandal, M.K. and Pal, P.	DBT-INNO INDIGO	209.168 lakhs	2016
Training SC/ST Community in Selected Rural Areas of Durgapur on Organic Agriculture and Biofertilizer production	Mandal, Tamal	DST-West Bengal	6.9 lakhs	2017
Nanomembrane based treatment of water for arsenic removal	Pal P. & Roy Mousumi	Ministry of Housing & Urban Affairs, Govt. of India	Approved by Dr. R.A. Mashelkar	2018
Nonlinear Dynamics of Bubble Growth and Collapse in Natural Circulation Boiling Loop	Paruya, Swapan	SERB-DST, Govt. of India	38.67 lakhs	2013

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST	All Faculty members	DST, GOI	117 lakhs	2016
Investigation on the extracts of Swertia chirata, Butea monosperma, Tradescantia pallid and Madhica indica as green corrosion inhibitor for mild steel in acidic medium	Adhikari U.	DST, Govt. Of West Bengal	15.38 lakhs	2017
Fish fat transformation during processing, preservation, braising and its nutritional consequences in terms of food value	Chakrabarty J.	DST ,Govt. of India	31.97 lakhs	2017
Reclamation of steel industry wastewater through phycoremediation technique using microalgae and assessment of biofuel production from algal biomass*	Chakrabarty J. Dutta S., PI; (Chem. Engg.), Bhattacharya P, (HIT, Kolkata)	IMPRINT, MHRD, Govt. of India	43.2 lakhs	2017
The Impact of Various Biochars on the Bioaccessibility and Bioaccumulation of Polycyclic Aromatic Hydrocarbons (PAHs) and Potentially Toxic Elements (PTEs) in Contaminated Soil	Gope M & Saha R N (Mentor)	SERB, DST, GOI	19.20	2018
Spatial Distribution of Uranium in Three Districts (South 24 Parganas, Purba Mednipur and Pashim Medinipur) of West Bengal	Gupta S (B.U.) & Saha R N (Co-PI)	BRNS, DAE, GOI	27.52 lakhs	2018
Investigation of modulation of transcriptional regulation of CAM7 By COP1 and Ca++/ Mg++ during Arabidopsis*	Maji M. & Chattopadhyay S.	DST ,Govt. of India	43.26 lahks	2016
Bio-transformation reactions of Pt(II)/Pd(II) and Pt(IV)-sulfur chelates to metal-DNA adduct with nucleobases: their kinetics, mechanistic pathway, bio-activity and theoretical aspects	Moi S. C.	SERB-DST, Govt. of India	44.66 Lakh	2017
Synthesis and characterization of Cis-platin based Pt/Pd(II) complexes: Their kinetics, mechanism, DNA- binding property and theoretical study	Moi S. C.	DST-DHESTBT, Govt. of West Bengal	24.991 Lakh	2018

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of highly efficient microwave absorber through controlled fluorescent nanoparticle localization in an immiscible polymer blend	Panja S.S.	SERB, Govt. of India	55 lakhs	2017
Nickel Complexes Supported by N,S-Donor Ligands: Relevance to the Active Site of Acetyl CoA Synthase (Project no EMR/2014/001059)	Patra A.K.	DST, Govt. Of India	65 lakhs	2015
Nano porous Transition Metal Based Semiconductors towards Catalysis and in Electrochemical Applications	Roy M & Saha R N (Mentor)	SERB, DST, GOI	19.20 lakhs	2018
Chemically Modified Polysaccharide linked to Schiff Base Ligand-Metal Complex: a Novel Approach of Investigation towards the Antioxidant and Antitumor Activities	Saha T. K.	SERB, Govt. of India	21.83 lakhs	2017
Synthesis of Pharmacologically Active Heterocyclic Compounds via One Pot Three-Component Coupling Reaction Catalyzed by Bio-Inspired Nanoparticles	Saha T. K.	SERB, Govt. of India	31.22 lakhs	2017

Department of Civil Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Nonlinear Coupled Dynamic Analysis of Deep Water Floating Facilities	Banik A. K.	RIG, NIT Durgapur	10 lakhs	2014
Prospects and study of floating offshore wind turbine (FOWT) platforms for wind energy harnessing	Banik A. K.	Department of Science & Technology, Higher Education, Govt. of WB, Grant No.254(Sanc.)/ST/P/ S&T/4G-07/2017	8.5 lakhs	2017
Seismic protection of Masonry buildings by Geosynthetic	Nanda R.P.	RIG, NIT Durgapur	7.2 lakhs	2015
Reliability-Based Mix Design of Pumpable Concrete	Roy, P.	RIG, NIT Durgapur	9.7 lakhs	2014
Simulation and Analysis of wind induced deformation and bending effects on shell wall	Samanta A. K.	RIG, NIT Durgapur	10 lakhs	2014
Design and development of crack detection system in steel bridges using acoustic emission technique	Topdar P. and Datta A.K.	DST-TSDP, Govt. of India	59.45 lakhs	2017
Structural Health Monitoring	Topdar P. and Datta A.K.	RIG, NIT Durgapur	20 lakhs	2014

Department of Computer Science and Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Automated Heterogeneous Face Recognition for Law-enforcement	Kisku,D.R.	RIGII, NIT Durgapur	9.46 lakhs	2016
CityProbe: A city-scale pervasive sensing system for monitoring road conditions, air and sound pollution (Project ID: 6720)	Subrata Nandi, Sujoy Saha, Mousumi Saha (Co- Investigator) (Other Institutes: IIT KGP, IIT Bombay, PEC Chandigarh)	IMPRINT India, Ministry of Human Resource Development, Govt. of India	59.736 L	August 2017
Design and Development of ElectrohydrodynamicInkjet Printing System	Murmu,N.C. (CSRI-CMERI, Durgapur,Roy,S.S. (Dept. of ME,NIT Durgapur, Kisku,D.R. (Dept.ofCSE, NITDurgapur)	DST/TSG/AMT	116.837 lakhs	2016
Design and Verification of Cache Coherence Controller in Chip Multiprocessors	Dalui, M.	NIT Durgapur (RIG Phase II)	10 lakhs	2016
EMPOWER SSE: A Linked Open Data Framework for the Empowerment of Social and Solidarity Economy Agents	Dutta, A. from Portugal side: Ana Alice Baptista, University of Minho	Indo-Portugal Bilateral Scientific and Technological Cooperation, DST, Govt of India	Rs. 10.84 lakhs	2018
Post-Disaster Situation Analysis and Resource Management Using Delay-Tolerant Peer-to-Peer Wireless Networks (DISARM)"	Sujoy Saha (Co-Investigator) (Other Institute: IIT KGP, IIM Kolkata, IIESTS, KGEC Kalyani, HIT Kolkata)	Information Technology Research Academy (ITRA) Ministry of Communications and Information Technology, Govt. of India	69.67L	September 2013
Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies	Sarkar Anirban	Media Lab Asia, MeiTY, GOI	42.63 lakhs	2013

Department of Electrical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
An Early Warning System for Electrical Power System Utility using Ultra-High Frequency Sensors	Koley Chiranjib Dr.	SERB, Gov. of India	38.63 lakhs	2017
Control of Stand-alone Induction Generators	Mahato . S. N. Dr	NIT Durgapur	9.75 lakhs	2014
Control of multi Input Converter for Hybrid wind Solar battery based system	PI: Saha T. K. Dr. Co. PI: Dey J Dr..	National Institute of Wind Energy Chennai, India	30.71 lakhs	2017

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Improvement of Smart Microgrid Flexibility And Power Quality Using Phasor Measurement Unit	Bhowmik P. S. Dr.	SERB-DST	26.4 lakhs	2017
Investigation on nonlinearities associated with cardiovascular regulation linked with lipid metabolism	Halder Suman Dr.	NIT Durgapur	9.88 Lakh	2016

Department of Electronics and Communication Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Centimeter wave channel measurement and modelling	Chandra, A.	NIT Durgapur (RIG)	10 lakhs	2017
Chips to System Design (C2SD-SMDP)	Mal, A. K., Mahapatra, R.	DeiTY, Govt. of India	90 lakhs (Approx)	2014
Design and Implementation of Time Modulated Antenna Arrays with Optimal Radiation Pattern in Both Transmission and Reception	Mandal, D.	SERB - DST	31.17 lakhs	23.03.2018
Development of Novel Time Modulated Antenna Arrays for the Present Communication Systems	Mandal, S.K. (ECE)	SERB-DST	39.60 lakhs	2017
Design of Efficient Rectenna System to Harvest Ambient RF Energy	Mandal, S.K. (ECE), Mitra, D. (IT)	NIT Durgapur (RIG)	20 lakhs	2016
Resistive Random Access Memory using HfO- based Hetero-Structures for Flexible Electronics	Rajat Mahapatra	SERB-DST	45.96 lakhs	2017
Dielectric Engineering on GaN for Sustainable Energy Applications	Rajat Mahapatra	UGC-UKIERI	9.51 lakhs	2018

Department of Earth and Environmental Studies

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Land subsidence study	Dr. K. Adhikari Dr. S. Pal	Essar Oil Ltd.	8,00,000	2016

Department of Humanities & Social Sciences

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
The Outreach and Impact of Government Policies in the villages (Bansgora and Pratappur) of Paschim Bardhaman District ofWest Bengal: With special reference to Swachha Bharat Mission (SBM)	Dr. S. K. Rai	NCRI	40,000	2018

Department of Mathematics

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of doubly-even self-dual binary codes of length 24k	S. Bagchi	SERB, DST, India	15.24 lakhs	2017
Homoclinic bifurcations in fluid systems	P. Pal	NBHM, India	6.08 lakhs	2015
Graph labelling and its applications	A. Pal	SERB, DST, India	17.91 lakhs	2015
In depth study of D-generalized metric spaces	L.K. Dey	NBHM, India	1.675 lakhs	2016
Magnetoconvection of low Prandtl-number fluids	P. Pal	SERB, India	21.14 lakhs	2016
Overstability in Rotating Magnetoconvection	P. Pal	SERB, India	6.6 lakhs	2018
Study on metric fixed point results with possible applications	L.K. Dey	CSIR, India	5.52 lakhs (for first year except overhead)	2018

Department of Mechanical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Technological awareness and development of Bell and Brass Metal Cluster at Suklai, Bankura, through Soft Intervention*	Khan K, Mallik M, Mondal M. K, Roy S. S, Howlader J	West Bengal Government	8.4 lakhs	June 2017
Technological awareness and development of Fishing Hook Cluster at Lalbazar, Bankura, through Soft Intervention*	Mallik M, Roy S. S, Mondal M. K, Khan K, Mondal S	West Bengal Government	4.5 lakhs	June 2017
Technological awareness and development of Bell and Brass Metal Cluster at Lalbazar, Bankura, through Soft Intervention*	Mondal M. K, Khan K, Mallik M, Roy S. S, Bhowmik P. S	West Bengal Government	8.2 lakhs	June 2017

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Technological awareness and development of Maduli Cluster at Birsingha, Bankura, through Soft Intervention*	Roy S. S ,Mondal M. K ,Khan K, Mallik M, Saha S	West Bengal Government	10.3 lakhs	June 2017

Department of Metallurgical and Materials Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Wear Behaviour of Al-Si Alloys at Room Temperature and at Elevated Temperature	Dr. Show B.K.	SERB-DST (Start Up Research Grant (Young Scientist)	Rs.25,07,500/	2015
Development of self-lubricating nano-composite for wear-resistant applications	Dr. Show B.K and N. Mandal, H.Roy, K. Mukherjee (CSIR-CMERI)	DST Nanomission	Rs. 81,38,400/-	2017
Technological awareness and development of Bell and Brass Metal Cluster at Lalbazar, Bankura, through Soft Intervention*	Mondal M. K., Mallik M., Roy S. S., Khan K. & Bhowmik P. S.	District Industries Centre (DIC), Bankura, Directorate of MSME, Govt. of West Bengal	8.20 lakhs	2017
Technological awareness and development of Fishing Hook Cluster at Lalbazar, Bankura through Soft Intervention*	Dr. M. Mallik, Dr. S.S. Roy, Dr. K. Khan, Dr. M.K. Mondal, Dr. S. Mondal	DIC, Bankura, Directorate of MSME, Govt. of West Bengal	450000/-	Ongoing
Technological awareness and development of Bell and Brass Metal Cluster at Suklai, Bankura, through Soft Intervention*	Dr. K. Khan, Dr. M. Mallik, Dr. M.K. Mondal, Dr. S.S. Roy, Dr. J. Howlader	DIC, Bankura, Directorate of MSME, Govt. of West Bengal	820000/-	Ongoing
Technological awareness and development of Maduli Cluster at Birshing, Bankura, through Soft Intervention*	Dr. S.S. Roy, Dr. M.K. Mondal, Dr. K.Khan, Dr. M. Mallik, Dr. S. Saha	DIC, Bankura, Directorate of MSME, Govt. of West Bengal	1030000/-	Ongoing
Technological awareness and development of Bell and Brass Metal Cluster at Lalbazar, Bankura, through Soft Intervention*	Dr. M.K. Mondal, Dr. S.S. Roy, Dr. K. Khan, Dr. M. Mallik, Dr. P.S. Bhowmik	DIC, Bankura, Directorate of MSME, Govt. of West Bengal	840000/-	Ongoing

Department of Physics

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of noble metal free electro catalyst for direct oxidation of ethylene glycol in direct ethylene glycol fuel cell (DEGFC)	Basu S (PI)	SERB	Rs.4305109.00	2017
Optical studies of polyaniline based nanocomposites by steady state and time-resolved techniques	Chakraborty A K (Co-PI) & Sinha S (PI). Implementing institute Visva Bharati University	CSIR	Rs. 7 lakhs	2016
Polymer nanocomposites with graphene nanoplatelets	Chakraborty A K	DST-SERB	Rs. 27.6 lakhs	2014
Centre of Excellence in Advanced Materials	Chakraborty A K (PI & coordinator)	MHRD (TEQIP-III)	Rs. 3 crores	2018
Developing module with teaching learning materials for mathematics, physics, chemistry and biology for school level.	Chaudhuri H (Project Coordinator, Implementing Institution: NIT Durgapur)	Paschim Banga Sarvasiksha Mission, Govt. of W.B. and Govt. of India, MHRD	5.00 lakhs	2018-2023
Investigation on radioactive profile of geothermal areas	Chaudhuri H (Implementing Institution: NIT Durgapur)	NIT Durgapur, Govt. of India, MHRD	10.00 lakhs	2017-2020
Investigation of complex dynamics of nonlinear system like Plasmas and Gas-geochemical emissions from hot springs through experiments, nonlinear time series analysis and validation by modelling	Chaudhuri H, Iyengar A. N. Sekar , Janaki M. S., (Implementing Institution:SINP, Kolkata)	SERB, DST Govt. of India	33.01 lakhs	2017-2020
Development and characterization of semiconductor nanostructures to obtain nanomaterials with enhanced photoluminescence and photocatalytic properties	Kumbhakar P(PI)	CSIR	Rs.19,17,000.00	2015
Development and haracterization of Magnetodielectric Materials for the use of Substracts in Antenna Miniaturization	Meikap A K (Principal Investigator) & Sahoo S & M K Mandal (Co-Invest)	DST-SERB	Rs.27,75,520.00	2017
A unique technique for synthesis of InN Nano-wire assembly for the application of optical sensor	Mondal A (Principal Investigator)	BRNS, DAE	33.23 lakhs	2016

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
To develop and fabricate an efficient TiO2 nanowire array based UV detector using plasmonic nanoparticles array	Mondal A (Principal Investigator)	CSIR	Rs. 17.9 lakhs	2016
Evaluation of the role of vitamin D in obesity cardiovascular disease and diabetes using SiOx /TiO2 nanowire based sensor*	Mondal A (PI) & Ghosh M (Co- PI)	SERB, DST Govt. of India	Rs. 48.64 lakhs	2017
Phenomenology of boson, B meson decays, Higgs boson and new physics	Sahoo S	SERB-DST	Rs. 19 lakhs	2016

* Repeated in other departments

Annexure - 11.4(b) Projects completed during 2017-18

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Studies on upgrading of water quality in coal mining area of Meghalaya and Eastern Coal mines by Chemisorption and Bioremediation towards mitigation of unscientific coal mining	Halder, G. N. Mandal, Tamal and Sikder, Jaya	DBT, Govt of India
Isolation and Characterization of Micro-organisms/Micro-algae from North East region and Eastern Coal mines for Bio-Sequestration of CO2 and its Utilization towards Generation of Bio-fuel	Halder, G. N., Mandal, M. K	DBT- Govt. of India

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring authority
Interaction of Bio-active Molecules With Pt(II) and Pd(II) Complexes of Bidentate Supporting Ligands: Their Kinetic, Mechanism and Speciation Studies"	Moi S.C.	DST, Govt. of India
Development of a Remedial Scheme for the Contaminated Ground Water Specially for Pesticides, Nitrate and Arsenic with Surface Modified Nanoscale Zero Valent Iron (nZVI) and Nano-Fenton's Oxidation	Saha R.N.	DST, Govt. Of India

Department of Computer Science and Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Development of Personalized and Performance based E-Learning tool for existing E-resources	Dutta, A. (Dept. of CSE), Roy, N.K. (Dept. of EE)	DeitY, Govt. of India
Agent Based Algorithmic Approach for Modelling and Optimization of Indian Railway System	Dutta, A.	DST, Govt. of India

Department of Electronics and Communication Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Studies on Novel Optimization Techniques to Synthesise Radiation Pattern of Antenna Arrays	Mandal D.	Department of Science and Technology, Government of India.
Uncoordinated Secure Energy Aware Access in Distributed Wireless Networks	Kundu S.	ITRA
HfO2-based resistive switching oxides for future non-volatile memory applications in silicon nanoelectronics	Mahapatra, R., Mal, A. K., Kar, R.	NIT Durgapur, (RIG)

Department of Earth and Environmental Studies

Title of the Project	Investigator(s)	Sponsoring authority
Abatement of Fluoride from Ground Water to Supply Safe Drinking Water to Rural People of West Bengal	Dr S. Datta, Dr K. Adhikari	Department of Science and Technology, Govt of West Bengal, India

Department of Mechanical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Heat transfer in self-similar boundary layers	Weigand B., Pramanick A. K.	DAAD, Germany

Department of Metallurgical and Materials Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Development of ceramic particle dispersed Aluminum alloy composite	Bera S.	DST, India
"MD-Stochastic Model Based Design and Development of Nanofluids for Advanced Thermal Applications"	Ghosh M.M.	DST, India
Application of Automation/Robotics/Simulation studies in steel plant process development.	Ganguly A.	Ministry of Steel Scholarship Scheme (2016-17):
Low grade material exploitation and waste utilisation for better steel plant economics.	Ganguly A.	Ministry of Steel Scholarship Scheme (2016-17):
Development of ceramic particle dispersed Aluminium alloy comosite	Bera S.	DST India
Strengthening of PG & Research Facility of MME Dept"	Prof. Ghosh K.S & Other Faculty members of MMED	DST–FIST
An investigation on accelerated spheroidization and mechanical property evaluation of high carbon steel under cyclic forced air cooling	Dr. Maity J. & Dr. Show B. K.	SERB-DST
IN-Vitro and IN-Vivo Electrochemical Study of Dental Amalgams of Various States in Oral Environments	Prof. Ghosh K.S (Mentor)	DST

Department of Physics

Title of the Project	Investigator(s)	Sponsoring authority
Development and Characterization of Polymer Multiferroic Nanocomposites for Enhance Magneto-Dielectric Behavior at Radio Frequency	Meikap A K (PI) & Sahoo, S (Co-Invest)	DAE BRNS
Modernization & setting up of Physics Laboratory	Meikap A K (Co-ordinator) & all faculty are members	DST-FIST
Centre of Excellence in Advanced Materials	Chakraborty A K. and Mondal D. K. (MME) coordinators and 8 other faculty members of PH and MME	MHRD (TEQIP-II)
Interface and load transfer in carbon nanostructure based epoxy nano-composites	Chakraborty A K. and Barbezat M. (EMPA)	Swiss Federal Lab for Material Sci .& Tech. (EMPA), Duebendorf

Annexure–11.4(c)i. Research papers published in SCI / SCOPUS / Web of Science journals during 2017-18

Department of Biotechnology

1. Bera, S., Chaudhuri, S., Dutta, D., 2017. Stability and antioxidant activity of bacterial canthaxanthin in aloe vera model system. Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS), 8(4), 1169.
2. Biswas, P., Dhabal, S., Das, P., Das, P., Swaroop, S., Prasad, T., Dhanalakshmi, J., Indhumathi, S., Bhattacharjee, A., 2018. Role of Monoamine oxidase A (MAO-A) in cancer progression and metastasis. Cancer Cell & Microenvironment (Smart Science & Technology LLC, USA), 5 (1), e1623.
3. Chatterjee, M., Hens, A., Mahata, K., Jaiswal, N., Mahata, N., Nagahanumaiah, Chanda, N., 2017. A novel approach to fabricate dye-encapsulated polymeric micro- and nanoparticles by thin film dewetting technique. Journal of Colloid and Interface Science (Elsevier), 506,126-134.
4. Choudhury, P., Uday, U.S., Mahata, N., Tiwari, O.N., Ray, R.N., Bandyopadhyay, T.K., Bhunia, B., 2017. Performance improvement of microbial fuel cells for waste water treatment along with value addition: A review on past achievements and recent perspectives. Renewable and Sustainable Energy Reviews (Elsevier), 79, 372-389.
5. Dutta, S., Basak, B., Bhunia, B., Dey, A., 2017. Approaches towards the enhanced production of Rapamycin by ***Streptomyces hygroscopicus*** MTCC 4003 through mutagenesis and optimization of process parameters by Taguchi orthogonal array methodology. World J. Microbiol. Biotechnol. (Springer Netherlands), 33, 90.
6. Giri, M.K., Singh, N., Banday, Z.Z., Singh, V., Ram, H., Singh, D., Chattopadhyay, S., Nandi, A.K., 2017. GBF1 differentially regulates CAT2 and PAD4 transcription to promote pathogen defense in ***Arabidopsis thaliana***. Plant Journal (Wiley), 91, 802-815.
7. Giri, M.K., Gautam, J.K., Prasad, V.B.R., Chattopadhyay, S., Nandi, A.K., 2017. Rice MYC2 (OsMYC2) modulates light-dependent seedling phenotype, disease defence but not ABA signaling. J. Biosci (Springer India), 42, 501-508.
8. Kumar, A., Jash, A., Priyadarshinee, R., Sengupta, B., Dasgupta, D., Halder, G., Mandal, T., 2017. Removal of catechol from aqueous solutions by adsorption using low cost activated carbon prepared from ***Eichhorniacrassipes***. Desalination and Water Treatment (Taylor & Francis), 73, 389–398.*
9. Kumar, A., Sengupta, B., Priyadarshinee, R., Singha, S., Dasgupta, D., Mandal, T., 2017. Treatment of coke oven wastewater using ozone with hydrogen peroxide and activated carbon. Desalination and Water Treatment (Taylor & Francis), 69, 352–365.*
10. Mohapatra, B., Sar, P., Kazy S. K., Maiti, M. K., Satyanarayana, T., 2018. Taxonomy and physiology

of ***Pseudoxanthomonas arseniciresistens*** sp. nov., an arsenate and nitrate-reducing novel gammaproteobacterium from arsenic contaminated groundwater, India, PLoS ONE (PLoS), 13 (3), e0193718, 1-18.

11. Mohapatra, B., Sarkar, A., Joshi, S., Chatterjee, A., Kazy, S.K., Maiti, M.K., Satyanarayana, T., Sar, P., 2017, An arsenate-reducing and alkane-metabolizing novel bacterium, ***Rhizobium arsenicireducens*** sp. nov., isolated from arsenic-rich groundwater. Archives in Microbiology (Springer Berlin Heidelberg), 199, 191-201.
12. Mondal, S., Aikat, K., Siddharth, K., Sarkar, K., Das Chaudhury, R., Mandal, G., Halder, G., 2017. Optimizing ranitidine hydrochloride uptake of ***Parthenium hysterophorus*** derived N-biochar through response surface methodology and artificial neural network. Process Safety and Environmental Protection (Elsevier), 107, 388-401.*
13. Neogi, S., Dey, A., Chatterjee, P.K., 2018. Corn starch industry wastewater pollution and treatment processes- A review. JBES (INNSPUB), 12(3), 283-293.
14. Pal, S., Kundu, A., Banerjee, T.D., Mohapatra, B., Roy, A., Manna, R., Sar, P., Kazy, S.K., 2017. Genome analysis of crude oil degrading ***Franconibacter pulveris*** strain DJ34 revealed its genetic basis for hydrocarbon degradation and survival in oil contaminated environment. Genomics (Springer), 109, 374-822.
15. Priyadarshinee, R., Kumar, A., Mandal, T., Dasgupta Mandal, D., 2017. Exploring the diverse potentials of ***Planococcus*** sp.TRC1 for the deconstruction of recalcitrant kraft lignin. International Journal of Environmental Science and Technology (Springer), 14 (8), 1713–1728.*
16. Reddy Dodda, S., Aich, A., Sarkar, N., Jain, P., Jain, S., Mondal, S., Aikat, K., Mukhopadhyay, S.S., 2018. Structural and functional insights of β-glucosidases identified from the genome of ***Aspergillus fumigatus***, Journal of Molecular Structure (Elsevier), 1156, 105-114.
17. Roy, A., Dutta, A., Pal, S., Gupta, A., Sarkar, J., Chatterjee, A., Saha, A., Sarkar, P., Sar, P., Kazy, S.K., 2018. Biostimulation and bioaugmentation of native microbial community accelerated oil refinery sludge bioremediation. Bioresource Technology (Elsevier), 253, 22-32.
18. Sabnam, N., Roy-Barman, S., 2017. WISH, a Novel CFEM GPCR is Indispensable for Surface Sensing, Asexual and Pathogenic Differentiation in Rice Blast Fungus. Fungal Genetics and Biology (Elsevier), 105, 37–51.
19. Samanta, A., Mitra, I., Reddy B., V. P., Mukherjee, S., Mahata, S., Linert, W., Misini, B., Bhattacharjee, A., Dhabal, S., Ghosh , G.K., Moi, S.C., 2017. Kinetics and mechanism of interaction of Pt (II) complex with bio-active ligands and in vitro Pt (II)-sulfur adduct formation in aqueous medium: Bio-activity and computational study. Journal of Coordination Chemistry (Taylor & Francis), 70 (6), 1032-1052.*
20. Sarkar, P., Roy, A., Pal, S., Mohapatra, B., Kazy, S.K., Maiti, M.K., Sar, P., 2017. Enrichment and characterization of hydrocarbon-degrading bacteria from petroleum refinery waste as potent bioaugmentation agent for in situ bioremediation, Bioresource Technology (Elsevier), 242, 15-27.
21. Tallapragada, S.D., Laye, K., Mukherjee, R., Mistry, K.K., Ghosh, M., 2017.Development of screen-printed electrode based immunosensor for the detection of HER2 antigen in human serum samples. Bioelectrochemistry (Elsevier), 118, 25–30.
22. Verma, A.K., Laha, B., Pandey, M., Pal, U., Ghosh, M., 2017. Cholesterol-lowering drug, in combination with Chromium Chloride, induces early apoptosis in intracellular ***L. donovani*** amastigotes, leading to death. J Biosciences (Springer India), 42(3), 427-438.

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Department of Chemical Engineering

1. Banerjee, S., Barman, S. and Halder, G., 2017. Sorptive elucidation of rice husk ash derived synthetic zeolite towards deionization of coalmine waste water: A comparative study. ***Groundwater for Sustainable Development***, ***5***, pp.137-151.
2. Banerjee, S., Joshi, S.R., Mandal, T. and Halder, G., 2017. Insight into Cr6+ reduction efficiency of Rhodococcus erythropolis isolated from coalmine waste water. ***Chemosphere***, ***167***, pp.269-281.
3. Banerjee, S., Kumar, R. and Pal, P., 2018. Fermentative production of gluconic acid: A membrane-integrated Green process. ***Journal of the Taiwan Institute of Chemical Engineers***, ***84***, pp.76-84..
4. Banerjee, S., LaminKa-ot, A., Joshi, S.R., Mandal, T. and Halder, G., 2017. Optimization of Fe2+ Removal from Coal Mine Wastewater using Activated Biochar of Colocasia esculenta. ***Water Environment Research***, ***89***(9), pp.774-782.

5. Basu, S., Roy, M. and Pal, P., 2018. Corporate greening in a large developing economy: pollution prevention strategies. ***Environment, Development and Sustainability***, pp.1-31.

6. Bhattacharya, M. and Mandal, M.K., 2017. Synthesis and characterization of ionic liquid based mixed matrix membrane for acid gas separation. ***Journal of cleaner production***, ***156***, pp.174-183.

7. Bhattacharya, M. and Mandal, M.K., 2018. Synthesis of rice straw extracted nano-silica-composite membrane for CO2 separation. ***Journal of Cleaner Production***, ***186***, pp.241-252.

8. Bhunia, S., Sadhukhan, A.K., Haldar, S., Mondal, P.P., Prabhakar, A. and Gupta, P., 2018. Devolatilization and Combustion of Coarse-Sized Coal Particles in Oxy–Fuel Conditions: Experimental and Modeling Studies. ***Energy & Fuels***, ***32***(1), pp.839-854.

9. Bhunia, S., Sadhukhan, A.K. and Gupta, P., 2017. Modelling and experimental studies on oxy-fuel combustion of coarse size coal char. ***Fuel Processing Technology***, ***158***, pp.73-84.

10. Biswas, G., Kumari, M., Adhikari, K. and Dutta, S., 2017. A Critical Review on Occurrence of Fluoride and Its Removal through Adsorption with an Emphasis on Natural Minerals. ***Current Pollution Reports***, ***3***(2), pp.104-119.

11. Biswas, G., Kumari, M., Adhikari, K., Dutta, S., 2017. Application of response surface methodology for optimization of fluoride from groundwater using ***Shorea robusta*** flower petal. ***Applied Water Science,*** 7(8): 4673-4690. DOI 10.1007/s13201-017-0630-5.

12. Biswas, G., Pokkatt, P.P., Ghosh, A., Kamila, B., Adhikari, K. and Dutta, S., 2017. Valorization of waste micro-algal biomass–collected from coke oven effluent treatment plant and evaluation of sorption potential for fluoride removal. ***Water Science and Technology***, p.wst2017638.

13. Biswas, G., Thakurta, S.G., Chakrabarty, J., Adhikari, K., Dutta, S., 2018. Evaluation of fluoride bioremediation and production of biomolecules by living cyanobacteria under fluoride stress condition. ***Ecotoxicology and Environmental Safety,*** 148: 26-36.

14. Bora, A.P., Dhawane, S.H., Anupam, K. and Halder, G., 2018. Biodiesel synthesis from Mesua ferrea oil using waste shell derived carbon catalyst. ***Renewable Energy***.

15. Chanda, S., Saha, R., and Pal, P.,2017. Assessment Of Arsenic Toxicity And Tolerance Characteristics Of Bean Plants (Phaseolus Vulgaris) Exposed To Different Species Of Arsenic. ***Journal of Plant Nutrition***, DOI: http://dx.doi.org/10.1080/01904167.2017.1385801

16. Chatterjee, A., Das, D., Sadhukhan, A.K. and Chatterjee, P.K., 2017. Probabilistic Assessment of UPV Test Result of a Degasser Unit. ***Journal of Nondestructive Evaluation***, ***36***(1), p.18.

17. Dasgupta, J., Sikder, J., Chakraborty, S., Adhikari, U., Reddy B, V.P., Mondal, A. and Curcio, S., 2017. Microwave-assisted modified polyimide synthesis: A facile route to the enhancement of visible-light-induced photocatalytic performance for dye degradation. ***ACS Sustainable Chemistry & Engineering***, ***5***(8), pp.6817-6826.

18. Datta, D. and Halder, G., 2017. Enhancing degradability of plastic waste by dispersing starch into low density polyethylene matrix. ***Process Safety and Environmental Protection***.

19. Dhawane, S.H., Bora, A.P., Kumar, T. and Halder, G., 2017. Parametric optimization of biodiesel synthesis from rubber seed oil using iron doped carbon catalyst by Taguchi approach. ***Renewable Energy***, ***105***, pp.616-624.

20. Dhawane, S.H., Kumar, T. and Halder, G., 2018. Recent advancement and prospective of heterogeneous carbonaceous catalysts in chemical and enzymatic transformation of biodiesel. ***Energy Conversion and Management***, ***167***, pp.176-202.

21. Dhurandhar, R., Sarkar, J.P. and Das, B., 2018. The recent progress in momentum, heat and mass transfer studies on pneumatic conveying: a review. ***Heat and Mass Transfer***, pp.1-18.

22. Ghosh, A., Debnath, B., Ghosh, S.K., Das, B. and Sarkar, J.P., 2018. Sustainability analysis of organic fraction of municipal solid waste conversion techniques for efficient resource recovery in India through case studies. ***Journal of Material Cycles and Waste Management***, pp.1-17.

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24. Janssens, R., Mandal, M.K., Dubey, K.K. and Luis, P., 2017. Slurry photocatalytic membrane reactor technology for removal of pharmaceutical compounds from wastewater: Towards cytostatic drug

elimination. ***Science of the Total Environment***, ***599***, pp.612-626.

25. Kamila, B., Sadhukhan, A.K., Gupta, P., Basu, P. and Acharya, B., 2017. Modeling of torrefaction of small biomass particles. ***Biofuels***, pp.1-10.
26. Kamila, B., Sadhukhan, A.K., Gupta, P., Basu, P., Regmi, B., Dutta, A. and Acharya, B., 2017. Two-dimensional modeling of torrefaction of a large biomass particle. ***International Journal of Green Energy***, ***14***(13), pp.1119-1129.
27. Ka-ot, A.L., Banerjee, S., Haldar, G. and Joshi, S.R., Acid and Heavy Metal Tolerant Bacillus sp. from Rat-Hole Coal Mines of Meghalaya, India. ***Proceedings of the National Academy of Sciences, India Section B: Biological Sciences***, pp.1-12.
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29. Khan, A.A., Halder, G.N. and Saha, A.K., 2017. Experimental investigation on efficient carbon dioxide capture using piperazine (PZ) activated aqueous methyldiethanolamine (MDEA) solution in a packed column. ***International Journal of Greenhouse Gas Control***, ***64***, pp.163-173.
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34. Kumara, A., Jasha, A., Priyadarshineeb, R., Senguptaa, B., Dasguptamandalb, D., Haldera, G. and Mandala, T., 2017. Removal of catechol from aqueous solutions by adsorption using low cost activated carbon prepared from Eichhornia crassipes. ***Desalination and Water Treatment***, ***73***, pp.389-398.
35. Mishra, R., Ghanta, K.C., Mullick, A.N. and Sinha, S.L., 2017. Numerical Prediction Of Flow Behavior And Erosion Prediction of Coal Water And Copper Ore Water Slurries. ***Journal of Advanced Research in Dynamical and Control System***, Vol. 9. pp. 2368-2388
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thermodynamics and modelling. ***Applied Water Science***, ***7***(8), pp.4479-4495.

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44. Mukherjee, A., Halder, S., Datta, D., Anupam, K., Hazra, B., Mandal, M.K. and Halder, G., 2017. Free radical induced grafting of acrylonitrile on pre-treated rice straw for enhancing its durability and flame retardancy. ***Journal of advanced research***, ***8***(1), pp.73-83.
45. Mukherjee, S. and Halder, G., 2018. A review on the sorptive elimination of fluoride from contaminated wastewater. ***Journal of Environmental Chemical Engineering***.
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Annexure–11.4(c)ii. Research papers accepted for publication in SCI / SCOPUS / Web of Science

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Department of Metallurgical and Materials Engineering

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Annexure – 11.4(c)iii. Research papers published in other peer-reviewed journals

Department of Civil Engineering

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Annexure – 11.4(c)iv. Papers Accepted for Publication In other Peer-Reviewed Journals

Department of Computer Science and Engineering

1. Maiti, S., Nandi, D., Chakraborty, B. Accepted for publication. Statistical analysis of raw in-vivo breast ultrasound echo. International Journal of Tomography and Simulation.

Department of Management Studies

1. Banerjee, A, De, A., Bandyopadhyay, G., 2017. Momentum Effect, Value Effect, Risk Premium and Predictability of Stock Returns – A Study on Indian Market, Asian Economic and Financial Review(Ranked in ABDC master list of journals), (***Accepted***, April 11, 2017).
2. Mnadal, K. et al. (2018),An Empirical Study on Consumer Societalness and Perception towards Social Responsibility Activities of the Corporation. Accepted for Publication in Paradigm. [On20.03.2018]

Annexure – 11.4(d) Research papers presented in conferences and published in proceedings

Department of Biotechnology

1. Balhara, M., Ghosh P., Chaudhuri, S., March 9-11, 2018. Improved extraction of polyphenols from pomegranate peel in a surfactant aided process, Biosangam 2018 "Innovations and Translational Dimensions: Food, Health and Environmental Biotechnology, Allahabad, Uttar Pradesh, India.
2. Borade, V., Paul, I., Dasgupta Mandal. D., 22-23rd March 2018. Exploring the potential of indigenous bacteria to degrade textile dyes. NSABLP- 2018- National Seminar on Advent of Biotechnology in life processes, Department of Biotechnology, University of Burdwan.
3. Chatterjee, M., Hens, A., Mahata, N., Chanda, N., February 02-04, 2018. A simple technique for the synthesis of dye encapsulated polymeric nanoparticles, International Conference on Advancements in Polymeric Materials, Laboratory for Advanced Research in Polymeric Materials (LARPM), CIPET, Bhubaneswar.
4. Das, I., Singh, J., Chaudhuri, S., January 11-13, 2018. Application of a microbial surfactant produced from ***Bacillus stratosphericus*** as biocontrol agent, Mother Earth: Environmental crisis and sustainable strategies, Burdwan.
5. Jaiswal, N., Hens, A., Nagahanumaiaha, Mahata, N., Chanda, N., Dec. 15-16, 2017. A micropatterned polystyrene surface for Protein immobilization, International Conference on Sustainable Manufacturing, Automation and Robotics Technologies (IC-SMART), CSIR-CMERI, Durgapur.
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14. Pal, S., Kundu, A., Das Banerjee, T., Mohapatra, B., Roy, A., Manna, R., Sar, P., Kazy, S.K., March 22-23, 2018.Genetic basis for hydrocarbon degradation

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Department of Chemical Engineering

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3. Basu, S., Roy, M**.,** Pal, P., Evaluation of Sustainability Index in Steel Enterprise: An Integrated Fuzzy-MCDM Approach, ***CHEMCON – 2017 ; HIT Haldia,*** December 27– 30,2017
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18. Kumar, R., Ghosh, A. K. and Pal, P., Membrane based downstream purification of Bio-Ethanol, Design, Synthesis, Characterization, Reactivity, Theoretical Study and application of Different Advanced Functional Materials; National Level Seminar; The Department of Chemistry, The University of Burdwan, 21-23rd Dec. 2017
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19. Kumar, R., Pal, P., Ghosh, A. K., A Clean Technology for the Production of Bioethanol from Renewable Carbon Source in Fully Membrane Based System. ***CHEMCON – 2017 ; HIT Haldia,*** December 27– 30,2017
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24. Pathak, U., Kumari, S., Das, P., Kumar, T., and Mandal. T., 2017. Role of Advanced Oxidation process in treatment of Coke Oven Wastewater –A Review. 7th IconSWM 2017, Hyderabad, India.

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Department of Chemistry

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2. Dalvi Vishal Vilas, Dutta Suvanka, Saha Rajnarayan, 17-19 July 2017; Influence of textile auxiliary compounds on photocatalytic degradation of a Reactive Dye by Zinc Sulphide Microspheres, 7th International Congress of Energy and Environment Engineering and Management (CHEM7) to be held in Canary Islands, Spain

3. Dasgupta S., Mukherjee S., Mukhopadhyay B. P, April 7-9, 2017 MD-simulation Based Degradation Mechanism of Biogenic Monoamines by hMAO B enzyme: Inhibitor/Drug Design for Neurological Disorders, International Conference on Drug Design, JNU, New Delhi.

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8. Moi S. C.*. and I Mitra; *Designing, Synthesis, characterization of Pt(II) and Pd(II) based anticancer agents: their kinetics, Bioactivity and theoretical study, TDB College Ranigan , West Bengal, , 5th April '2018 (Invited Lecture)in SERB-DST sponsored National seminar.*
9. Moi S. C.*. and I Mitra; Superior normal cell viability of Pt(II) complexes than ***cis***platin with benzimidazole as carrier ligand: Synthesis, DNA binding, anticancer property and computational study; 20-22nd September'2017, Science City, Kolkata, India, World Cancer Submit and Drug Discovery and Drug Delivery Congress (Invited Talk) (Best Speaker award with Gold Medal)
10. Moi S. C.; A co-relation between corrosion and pollution in thermal power plant: a remedy to balance sustainable environment in Damodar Valley in India, 17-19 July'2017 (Invited Talk) at Canary Island, Spain.
11. Mukherjee Indrani, Chatterjee Sriparna, Saha Rajnarayan; August 7-8, 201, Morphology dependent photocatalytic activity of Cu_2O nanocrystals, International Conference on Crystal Ball Vision on Science & Engineering for Societal Upliftment, CSIR-NIO, Goa
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15. Roy S., Sikdar A., Panja S.S. October 10, 2017, Synthesis and properties of a highly pH sensitive fluorescein based fluorescent probe and its bio-imaging application. International Science Seminar jointly organized by Burdwan Raj College and Indian Chemical Society, Burdwan, India.
16. Sikdar Sayanta, Ghosh Ananya, Saha Rajnarayan, January 11 to 13, 2018, Optimized Cost-Effective Synthesis of Magnesium Oxide Nanoparticles for Arsenic Removal from Groundwater, Third International Conference on the theme "Mother Earth: Environmental Crisis & Sustainable Strategies" at Environmental Science, Burdwan University Campus.
17. Suvanka Dutta and Saha Rajnarayan, 11-14 December 2017, Green fabrication of RGO-ZnS nanocomposite using Cysteamine as novel sulphur source: Enhanced photocatalytic performance on industrial dyes and effluent, Presented at "Modern Trends in Chemistry MTIC XVII, Pune" organised joint le by NCL Pune and IISER Pune
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21. Sukul D., Dey S., Banerjee P., Corrosion inhibition of mild steel in HCl medium by selected benzimidazole derivatives: structure-reactivity co-relation study, 17-19 July 2017 (Invited Talk) at 7th International Congress of Energy and Environment Engineering and Management (CIIEM7), Canary Island, Spain.
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Department of Civil Engineering

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Annexure - 11.4(e) Visits abroad during 2017-18

Department of Chemical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Dutta, Susmita	2nd International Conference on Green Energy and Application 2018, NTU, Singapore	NTU, Singapore	24-26th March, 2018
Ghanta, K.C.	2nd International Conference on Green Energy and Application 2018, NTU, Singapore	NTU, Singapore	24-26th March, 2018

Department of Chemistry

Name	Name of the Programme	Organized by	Date of the programme
Moi, S.C.	7th. International Congress on Energy and Environment Engineering and Management, Canary island, Spain	Science Knowledge Conferences, Canary island, Spain	17-19th July, 2017
Saha, R.N.	7th. International Congress on Energy and Environment Engineering and Management, Canary island, Spain	Science Knowledge Conferences, Canary island, Spain	17-19th July, 2017
Sukul, D.	7th. International Congress on Energy and Environment Engineering and Management, Canary island, Spain	Science Knowledge Conferences, Canary island, Spain	17-19th July, 2017

Department of Civil Engineering

Name	Name of the Programme	Organized by	Date of the programme
Banik, A. K.	ICSOS 2017 International Conference	SUSTec, Shenzhen, China	September 11-13, 2017
Roy, P.	12th International Conference on Structural Safety and Reliability (ICOSSAR 2017)	TU Wien, Vienna, Austria	August 06-10, 2017

Department of Computer Science and Engineering

Name	Name of the Programme	Organized by	Date of the programme
Bhattacharjee, S	IEEE Conference NSyS 2017, Dhaka, Bangladesh	BUET, Dhaka	18-20, December, 2017
Chakraborty, Baisakhi	Conference iCMLDE, 2017, Sydney Australia	GCSTMR, Australia	20-22 Nov, 2017
Chandran, Saravanan	International Conference on Recent Innovations in Engineering and Technology, Mauritius	IIER	21-22, July 2017
Dalui, M	International Conference ICSCA 2018, Kuantan, Malaysia	Universiti Malaysia Pahang (UMP), Malaysia	February 8-10, 2018
Dutta, A.	First BRICS Working Group Meeting and innovation collaborating forum on information and communication technologies (ICT) and high performance computing (HPC)	Department of International Cooperation, the Ministry of Science and Technology (MoST) and organized by Guangzhou University	23rd to 26th April, 2017

Name	Name of the Programme	Organized by	Date of the programme
Dutta, A.	Group meeting for research and development in large scale multi-agent systems.	Guangzhou Milestone Software Co. Ltd.	17th -30th December, 2017
Dutta, A.	ICAART 2018 10th International Conference on Agents and Artificial Intelligence	ICAART 2018	16-18 January, 2018
Pal, T	International Conference on the Theory and Practice of Natural Computing (TPNC 2017), Prague, Czech Republic	GRLMC, University of Deusto Rovira i Vergili University, Spain	18-20 Dec., 2017
Saha, M	IEEE East-West Design & Test Symposium (EWDTS)	IEEE	29th September – 2nd October ,2017
Sarkar, A	16th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2017), Bialystok, Poland	Bialystok, Institute of Technology	June 16 – 18, 2017
Sharma, A.	First BRICS Working Group Meeting and innovation collaborating forum on information and communication technologies (ICT) and high performance computing (HPC)	Department of International Cooperation, the Ministry of Science and Technology (MoST) and organized by Guangzhou University	23rd to 26th April, 2017

Department of Electrical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Banerjee S	To attend and present paper in 41st IECON	IEEE Industrial Electronics Society, Yokohama, Japan	9th -12thNov,2015

Department of Electronics and Communication Engineering

Name	Name of the Programme	Organized by	Date of the programme
Kar R.	TENCON 2017	R10 IEEE, Penang, Malaysia	5 - 8 November 2017
Kar R.	ICPM 2017	National Technical University of Athens	6th – 9th September, 2017

Department of Earth and Environmental Studies

Name	Name of the Programme	Organized by	Date of the programme
Dr. Kalyan Adhikari	7th International Congress of Energy and Environment Engineering and Management (CIIEM7)	Science Know Conference	19-21st July,2017

Department of Earth and Environmental Studies

Name	Name of the Programme	Organized by	Date of the programme
Sinha, Madhabendra	Asian Development Bank Institute Workshop on Middle Income Trap in Asia, Kobe, Japan (Fully Sponsored by ADBI)	ADBI, Japan	December 12-13, 2016
Sinha, Madhabendra	Annual Banking Conference 2017 (Sponsored by BIBM)	BIBM and United Nations Capital Development Fund	November 26-27, 2017

Department of Management Studies

Name	Name of the Programme	Organized by	Date of the programme
De, A	International Conference on Education, Psychology and Social Science (ICEPSS) 2017	Philippines	June 1-3, 2017
Pal, D	'IPSA- NUS Summer School for Social Science Research Methods' (Course name: Qualitative Data Analysis).	National University of Singapore, Singapore	June 26-30, 2017

Department of Mathematics

Name	Name of the Programme	Organized by	Date of the programme
S. Bagchi	8th International Conference on Applied Physics and Mathematics (ICAPM 2018)	Phuket, Thailand.	January 27 – January 29, 2018
L.K. Dey	8th International Conference on Applied Physics and Mathematics (ICAPM 2018)	Phuket, Thailand.	January 27 – January 29, 2018
Kar. S	43rdConference on Uncertainty theory	Department of Mathematical Sciences, Tsinghua University, China	December 09 – 12, 2017

Department of Mechanical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Banerjee N.	9th Internatinal Congress on Precision Machining, ICPM 2017	National Technical University of Athens, Greece	Sept 6-9, 2017
Das A K	Visit to Soonchunhyang University, South Korea for collaborative research in thermofludic study on 3D printing m/c	Soonchunhyang University, South Korea	July1st-14, 2017
Hui N. B.	9th International Congress on Precision Machining	National Technical University Greece	September 6-9, 2017
Hui N. B.	IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)	IEEE TEMS Thailand Chapter IEEE TEMS Singapore Chapter IEEE TEMS Hong Kong Chapter	December 10-13, 2017
Karmakar S.	IEEE Region 10 Conference TENCON	IEEE, Region 10, Penang, Malaysia	November 5-8, 2017
Mullick A N	CSM 2017	IRED, USA	Sept. 2-3, 2017

Name	Name of the Programme	Organized by	Date of the programme
Pramanick A. K.	Constructal Law and Second Law Conference	Romanian Academy, Bucharest, Romania	15-16 May 2017
Pramanick A. K.	Student and Faculty Exchange under Re-invitation Program by DAAD	German Academic Exchange Service (DAAD), Aerothermodynamics Department, University of Stutgart, Stuttgart, Germany	01 June- 28 July 2017
Puri A. B.	ICPM 2017	NTU, Athens, Greece	Sept, 9-11 2017

Department of Physics

Name	Name of the Programme	Organized by	Date of the programme
Chakraborty, AK	Academic visit to University of Liverpool, UK for joint project review and future projects	University of Liverpool	June 1-16, 2017
Chakraborty, AK	International Conference on Materials for Advanced Technology (ICMAT), Singapore	Materials Research Society, Singapore and Nanyang Technological University	June 18-24, 2017
Chaudhuri, H	International Conference World Multidisciplinary Earth Sciences Symposium-WMESS 2017	Czech Soil Science Society, International Association for Engineering Geology & the Environment, Prague	September 11- 15, 2017
Chaudhuri, H	International Conference International Scientific Conference RFBR-DST 10 years of cooperation in supporting Indian –Russian research advancing the future of scientific partnership	Russian Academy of Science, Moscow, Russia	June 21, 2017
Chaudhuri, H	International Conference Technoprom 2017	Governor Office, Novosibirsk, Russia	June 20, 2017
Chaudhuri, H	Academic visit to Russian Universities and Research Intitutes – Siberian State University of Geosytems and Technologies, Novosibirsk, Russia, Trofimuk Institute of Petroleum Geology and Geophysics (IPGG SB RAS), Novosibirsk, Russia, Budker Institute of Nuclear Physics, SB RAS, Novosibirsk, Russia, ITMO University, Saint Petersburg, Russia, Far Eastern Federal University (FEFU), Russia, Schmidt Institute of Physics of the Earth (SIPE), RAS, Russia, Moscow	Governor Office, Novosibirsk, Russia	June 17- 27, 2017

Annexure - 11.4(f) Ph.D. degree awarded during 2017-18 session

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Bio-Prospecting of Dietzia Maris NIT-D, A Carotenoid Producting Bacterium from Nutraceutical and Environmental Aspect	Bera, Surojit	Dutta D.
Biodegradation and Biodecolorization of azo dye by newly isolated microorganism Enterobacter cloacae strain SXCR	Prasad, Shiv Shankar	Aikat, K.
Studies on biodelignification to improve the paper quality & minimize the generation of Genotoxic effluents	Priyadarshini, Rashmi	Dasgupta Mandal, D
Functional analysis of GPCR genes in rice blast fungus (Magnaporthe oryzae).	Sabnam, Nazmiara	Roy-Barman, S.
Characterization and Optimization of Pigment Production from an Isolated Bacterial Strain	Samanta, Amit Kumar	Dutta D., Chaudhuri S.
Anti-leishmanial effects of Statins and Micronutrients, exploring the mechanistic action	Verma, Amit Kumar	Ghosh, M.

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Studies on the production of xylitol from lignocellulosic biomass	Bhattacharya Anamica	Sadhukhan A.K. & Chatterjee P.K. (CSIR-CECRI)
Studies on textile wastewater treatment using Membrane-Integrated Systems	Dasgupta Jhilly	Sikder Jaya
Studies on Enzymatic Synthesis of Biodiesel from Microalgae Oil / Neem Oil using Fluidized Bed / Semifluidized Bed Bioreactors	De Tripti	Narayanan C.M. , Sikder Jaya
Experimental Study on Sequestration of Carbon Dioxide (CO2) from Industrial Flue Gas using Blends of Amines	Khan, A.	Halder G. N.
Isolation and Characterization of Microalgae from Eastern Coal mines for Biodiesel Production under Different Nutritional Modes	Mondal, M.	Halder G. N. & Mondal M. K.
Process Intensification in Acetic acid manufacture from waste material	Nayak J.	Pal P.
Environmentally Conscious Manufacturing Programs in Process Industry: Green Management Approach *	Sen P.	Pal P.& Roy M.
Treatment of complex Pharmaceutical Wastewater in a new membrane-integrated closed loop system for recovery and reuse	Thakura R.	Pal P.

Department of Chemistry

Topic	Investigator	Supervisor(s)
Electron Donor Acceptor Interactions Involving Coal Derived Asphaltenes In Homogeneous And Heterogeneous Media : A Spectroscopic Study	Chaudhuri Paromita	Panja S S
Synthesis Characterization and Biocatalytic Activity of Some Transition Metal Complexes with Different Chelating Ligands	Dey Dhananjay	Maji M., Biswas B.(Rahunathpur College)
Modelling Biological Copper Sites Supported by N,S Donor Ligands	Maji Ram Chandra	Patra, A. K.

Topic	Investigator	Supervisor(s)
Application of Some Bio-polymeric Molecules as Potential Corrosion Inhibitors for Mild Steel in Acidic Media	Roy Pialee	Sukul D.
Ligand substitution reaction on Platinum and Palladium(II) complexes with bio-relevant thiols and thio-ethers: Their kinetics, mechanism and bioactivity in aqueous medium	Samanta Avradeep	Moi S. C.

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
Design of an Architectural Framework for Dynamic Web Services	Ahamad, Faisal	Sarkar, Anirban
A Hierarchical Set of Super Classifiers for Fast Individual Facial Expression Identification	Bhakta, D.	Sarker, Goutam
Multi-agent based algorithmic approach for railway scheduling, coalition handling and optimization.	Dalapati, Poulami	Dutta, A., Bhattacharya, S.
Distributed area coverage by swarm of mobile robots	Das, Dipanwita	Nandi, D., (NIT Durgapur), Mukhopadhyay, S. (BIT, Kolkata)
Some Optimization Problems on Fuzzy Graphs	Dey, Arindam	Pal, Tandra
Functional Specification of Software as a Service for Data Centric Cloud Applications	Mandal, Amit Kr.	Sarkar, Anirban

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
Pid Controller Tuning of Load Frequency Control System Using Soft Computing Techniques	Pain S. G.	Acharjee P.
Modelling and Performance Analysis of Cascaded Two-Level Inverter Based Grid Connected and Stand-Alone Photovoltaic Systems	Kumar Nayan	Saha T.K., Dey J.
Intelligent Navigational Control of a Mobile Robot using Soft Computing Techniques	Panigrahi P. K.	Ghosh S. & Parhi D. R.
Development of a New Load Flow Method and Optimization of Power Flow for the Radial Distribution Systems using Evolutionary Techniques	Khan Nasim Ali	Ghosh S. & Ghoshal S. P.

Department of Electronics and Communication Engineering

Topic	Investigator	Supervisor(s)
Cognitive Radio Network with Efficient Spectrum Sensing and Energy Harvesting	Bhowmick, A.	Dhar Roy, S. and Kundu, S..
Enhancing energy efficiency of 802.15.4 networks using relays	Biswas Sankalita	Chandra, A. and Dhar Roy, S.
Novel Techniques in Output Pattern Optimization of Microwave Antennas & Filters	Chakravorty, Pragnan	Mandal, D.
Performance Improvement of Antenna Arrays using Evolutionary Optimization	Das, S.	Mandal, D.Kar, R.Ghoshal, S. P.
Studies on Design and Computational Aspects of Metamaterial and Its Application to Antenna	Goswami, Chiranjib	Ghatak, R & Poddar, D. R. (ETCE Dept., Jadavpur University)
Studies on Planar Antennas and Array for Applications in Multi-Standard Wireless Systems from IIEST Shibpur	Mondal,Tapas	Ghatak R & Bhadra Choudhuri S. R. IIEST Shibpur

Topic	Investigator	Supervisor(s)
Cooperative Relay in Cognitive Radio Networks with Imperfect CSI and Energy Harvesting Presence of Fading	Prasad, B.	Dhar Roy, S. and Kundu, S..
Studies on Zno Nanostructures for Gas Sensing Application	Sinha Madhumita	Mahapatra, R. &Ghose, R.
Studies on Planar Antennas and Array for Applications in Multi-Standard Wireless Systems from IIEST Shibpur	Tapas, Mondal	Ghatak R & Bhadra Choudhuri S. R. IIEST Shibpur
Design of Low Power Area Efficient Switched-Capacitor Circuits	Todani, Rishi	Mal A. K.

Department of Humanities and Social Sciences

Topic	Investigator	Supervisor(s)
Whose Power is Perpetuated at the Expense of Whom: An Exploration into the Linguistic Function of Cultural and Literary Texts in Depicting Gender Images in Bangla	Bhunia Chakraborty, Aditi	Modak, A.
Retelling of Hindu Mythology in Contemporary Indian English Fiction: A Critical Study	Banerjee S.	Rai, S.K
Consumer Welfare, Consumer Protection, and role of Grievance Redressal in Retail Sector- A Study of Kolkata Municipal area	Agasti S.	Sengupta P. P. & Dr. Chaudhury P.
Cost Benifit Analysis of Road Transport (Bus) in Kolkata	Banerjee A.	Sengupta P. P.
Effect of Deregulation on the efficiency, productivity and Financial performance of Indian Life Insurance Companies	Chakraborty J.	Sengupta P. P.

Department of Management Studies

Topic	Investigator	Supervisor(s)
Forecasting of Scenario of Indian Financial Market Using Operations Research Techniques	Guha Banhi	Bandyopadhayay G.
Information Communication Technology and E-Business Support for Indian MSMEs	Gayen, A	Roy M.
Relationship between Banking Insurance and Economic growth in India	Kaushal, S	Dr.Ghosh Amlan
An Empirical Investigation of Credit Rating of Initial Public Offerings of Private Sector Undertakings In India	Banerjee Sanbad	Bandyopadhayay G.
Environmentally Conscious Manufacturing Programs in Process Industry: Green Management Approach*	Sen, P	Roy M. & Pal P.

Department of Mathematics

Topic	Investigator	Supervisor(s)
A study on Fuzzy graph and interval valued fuzzy graph	Mishra, Sachchidananda	Pal, A.
Some Optimization problem on Fuzzy Graphs	Dey, Arindam	Pal, A. and Pal, T.
Analysis and Optimization of Coal Mine Production and Operations Management System	Mandal, Satya	Sarkar (Mondal), S. & Ghosh, A..
Intelligent System on Manifold Decision Making	Mitra Thakur, Gour Sundar	Sarkar (Mondal), S. & Bhattacharyya, R.

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Investigation on Geometry and Size Effects in Micro-EDM	Barman Swapan	Puri A. B., and Nagahanumaiah
Modelling of Feed Drive and Spindle Bearing System of Machine Tools	De Jagannath	Banerjee N. ,Saha A. K.
Free Vibration Analysis of Hat Stiffened Structures for Damage Detection	Karanjkar Atul Vasant	Banerjee N.
Numerical Study on the Thermo-fluidic Transport of Flyash-water Slurry in Horizontal Pipeline	Nayak Bibhuti Bhusan	Mullick A N, Chatterjee D
Manufacturing Analytics of Cold Flow Forming of Solution Annealed Aluminium Tube	Podder Bikramjit	Hui N.B., Kumar K. R.

Department of Physics

Topic	Investigator	Supervisor(s)
Phenomenological implications of boson in mixing and rare decays of b hadrons	Banerjee D	Sahoo S.
TiO2-SiOx-TiO2 based optical detector	Choudhuri B	Mondal A.& Saha A.
Optical and Electrical Properties of Polymer-Nanocomposites	Goswami M.	Meikap A.K. Ghosh R.
Electrical Transport Properties of Inorganic and Organic-Inorganic Nanocomposites	Mukherjee P. S.	Meikap A.K.
Ag nanoparticle dispersed in TiO2 nanowire-based UV-Vis detector	Ngangbam C	Mondal A. & Dev S.

Annexure - 11.4(g) Ongoing doctoral Programme

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Production of biopesticide from Mucuna pruriens	Acharya, Bidyut	Aikat, K.
Useful Compounds from Microbial Sources	Barik, Sudhir K.	Aikat, K.
Cloning and Functional analysis Leishmania donovani Amastin- like surface Protein	Biswas, Bapi	Ghosh, M.
Role of Adenosine 5'-Monophosphate (AMP)-activated protein kinase [AMPK] in controlling the expression and function of Monoamine Oxidase A (MAO-A) in response to Th2 cytokines	Biswas, Pritam	Bhattacharjee, A and Mukhopadhyay, S.S.
Investigation of the possible functional interrelation between Calmodulin7 (CAM7) and Cyclin Dependent Kinase B2 (CDKB2) in Arabidopsis seedling development	Biswas, Srabasthi	Chattopadhyay, S.
Study of functional polymeric nanoparticles for biomedical application	Chatterjee, Manosree	Mahata, N.
Activation of monocytes and cancer cells by IL-13 and its implication in diseases	Das, Payel	Bhattacharjee, A. and Choudhuri, S.
Role of Src kinase and Pyk2 in Monocyte migration	Das, Pradip	Bhattacharjee, A. and Mukhopadhyay, S.S.
Bioremediation of anthracene	Dasgupta, Arpan	Chaudhuri, S.
Assessment of biomarkers in respect to disease detection and treatment	Deepthy, Sagarika	Ghosh, M.

Topic	Investigator	Supervisor(s)
Stat-dependent expression and function of Monoamine Oxidase-A (MAO-A) in IL-13-activated A549 cells	Dhabal, Sukhamoy	Bhattacharjee, A. and Mukhopadhyay, S.S.
Enhanced production of Rapamycin with an improved strain of Streptomyces hygroscopicus (NTG-30-27): Its Optimization, Kinetics study and Purification.	Dutta, Subhashish	Dey, A.
Extraction, purification and characterization of bioactive compounds from food waste	Gehlot, Sameep	Chaudhuri, S. Bhattacharjee, A., and Dutta, D.
Useful compounds from plant sources	Ghosh, Tanmay	Aikat, K.
Dampening of macrophage function in innate immunity through the involvement of pattern recognition receptors (PRRs)	Halder, Sudeshna	Mahata, N.
Development, characterization and optimization of novel drug delivery system against degenerative diseases through statistical modelling	Hazra, Moumita	Dasgupta Mandal, D., and Mandal, T.
MCM3AP: A novel S phases replication checkpoint protein and its relation to Fanconi anemia protein.	Jain Khatur, Sneha	Mukhopadhyay, S.S.
Bioremediation & Biosorption of Heavy metals from tannery Effluent	Kumar, Prakash	Aikat, K.
Drug Targeting Nanoparticles in anti-cancer treatment	Maji, Moumita	Ghosh, M.
Studies on valuable Bioactive compounds characterization, extraction and application.	Majumdar, Shubhasree	Dasgupta Mandal, D.
Exploring microbial communities and metabolic processes in deep subsurface continental crust at Koyna region, Western India	Mandal, Sunanda	Kazy, S. K.
Exploration of Kocuria marina DAGII for pigment production and environmental sustainability	Mitra, Ruchira	Dutta, D.
Studies on the biological treatment of waste water from starch industry for pollution control	Neogi, Subhaneel	Chatterjee, P.K. and Dey, A.
Investigation of the function of mitogen activated protein kinase in Arabidopsis seedling development	Ojha, Madhusmita	Chattopadhyay, S.
Exploitation of Valuable productst from isolated microorganism of industrial effluent for their treatment	Pal, Indrani	Dasgupta Mandal, D
Diversity and metabolic potential of indigenous bacteria in petroleum contaminated sludge from oil field: prospects for bioremediation	Pal, Siddhartha	Kazy, S. K.
Identification and characterization of interacting partner of CAM7/ZBF3 in Arabidopsis seedling development	Parvez, S.W.	Chattopadhyay, S. and Mandal, N.C.
Studies on hazardous impact of pollutants on host and its biological remediation.	Ranjan, Jyoti	Dasgupta Mandal, D.
Genetic engineering of rice for enhanced blast disease resistance	Raut, Ravindra	Roy Barman, S.
Engineering of cellulase enzymes of Aspergillus fumigatus NITDGPKA3 for enhancing their activity and development of recombinant cellulosic Saccharomyces cerevisiae for bioethanol production from rice straw.	Reddy, Subba Dodda	Mukhopadhyay, S.S. and Aikat, K.
Assessment of microbial communities and their bioremediation potentials in petroleum contaminated sludge from oil refineries	Roy, Ajoy	Kazy, S. K.
Exploration of Curcuma amada for Bioactive molecules and its Encapsulation for Therapeutic Applications	S Rohini	Dutta, D

Topic	Investigator	Supervisor(s)
Secondary metabolism and pathogenesis in rice blast fungus	Saha, Pallabi	Roy Barman, S.
Biodegration of organochlorine pesticides	Sahoo, Banishree	Chaudhuri, S.
Antimicrobials from natural sources	Saini, Swamini	Chaudhuri, S., Ghosh S and Dutta, D.
Studies on biodegradation of 4-Nitro phenol by indigenous microbial consortium isolated from agricultural soil	Sarkar, Priyanka	Dey, A.
Mitochondrial role of FA protein FANCD2	Singh Kapur, Bishwajit	Mukhopadhyay, S.S.
Molecular and genetic interactions of ZBF1/MYC2 with Regulatory component of light signaling pathways in Arabidopsis thaliana	Srivastava, A.K	Chattopadhyay, S.
Regulation of 15-lipoxygenase expression and function	Swaroop, Surbhi	Bhattacharjee Ashish and Aikat Koustav
Delivery of anticancer phytochemicals and drugs via PDMS nanoparticles	Verma Madhu	Chaudhuri S, Sivakumar S and Dutta D
Fermentative production of Pectinase enzyme by Aspergillus spp	Verma, Heena	Dey, A. and Goswami, S.

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Microbial Production of Gluconic Acid	Banerjee S.	Pal P.
Studies on Upgrading of Water Quality in Coal mining areas of Meghalaya and Eastern Coal mines by Chemisorption and Bioremediation towards Mitigation of Unscientific Coal mining	Banerjee, S.	Halder, G.
Production Management through Optimization Strategy	Basu Sanghita	Pal, P. & Roy M
Numerical simulation of bubble dynamics in boiling	Bhati Jyoti	Paruya, S.
Study on acidic gas separation & utilization of Carbon di-oxide into valuable products: A membrane integrated ap-proach	Bhattacharya, Madhubanti	Halder, G.
Studies on Pyrolysis Of Waste Tyres and Fuel Recovery	Bhattacharyya B. B.	Sadhukhan,. A. K. Ruj, B. B. Gupta, P.
Modelling and experimental investigations on pyrolysis and combustion of coal	Bhunia Shyamal	Haldar, S., Sadhukhan, A.K. Gupta, P.
Abatement of Fluoride from Ground Water and Wastewater	Biswas Gargi	Dutta, S. Adhikari, K.
A Study on Sorptive Elimination of Ibuprofen from Simulated Pharmaceutical Wastewater by Waste Biomass	Chakraborty Prasenjit	Halder, G.
Arsenic Transport through Vegetation	Chanda S.	Pal P & Saha R
Studies on the effect of chemical Environment on health of concrete structures at national installations	Chatterjee Abhijit	Sadhukhan, A. K. Chatterjee, P. K.
Hydrodynamic and Thermal Study of Flow through Micro Channel	Chatterjee Shilpi	Ghanta, K.C. and Hens, A.
Experimental study of mechanical and thermo-chemical properties of LDPE dispersed with starch at varied condition	Datta, D.	Halder, G.
Experimental study of biodiesel generation from non-edible oil via heterogeneous catalysis	Dhawane, S.	Halder, G.

Topic	Investigator	Supervisor(s)
Comparative Hydrodynamics and Gas-Solid Heat Transfer between a Straight and Converging Vertical Dilute Phase Pneumatic Riser	Dhuranshar Rashmi	Sarkar. J.P. & Das, B.
Studies on the rotating fluidized bed in static geometry chamber for intensifying drying performance	Dutta Subhajit	Sadhukhan, A. K. Chatterjee, P. K. &Gupta, P.
Phycoremediation of Cyanide and carbon di oxide Sequestration using microalgae : An Integrated approach	Ganta Upendar	Dutta, S. & Ghanta, K. C.
Effect of Waste Plastics on the Physical Structure and Subsequent Anaerobic Digestion of Vegetable Waste Landfill Bed.	Ghosh Anaya	Sarkar, J.P. & Das, B.
Modelling and Experimental Investigation on Pyrolysis and Gasification of Biomass	Kamilla Biswajit	Gupta, P. & Sadhukhan, A. K.
Production of Bioethanol from sugarcane bagasse in a membrane-integrated hybrid reactor with the aid of humic acid as the pretreatment agent.	Maheswari, R Uma	Sikder, J.
Studies and development of suitable treatment strategies to remove 2,4-Dichlorophenoxy acetic acid from contaminated wastewater of agricultural field	Majee Subhasish	Mandal T
Experimental study on the role of hybrid technique towards treatment of leather industrial waste water for reduction of toxic effects	Manish C. Kannaujiya	Mandal T
Hydrodynamics and Erosion Studies for Flow of Particulate Slurries	Mishra Rahul	Ghanta K C & Mullick A N
Hydrodynamics and Thermal Studies for Flow of Particulate Slurries	Mishra Sudhanshu	Ghanta K C & Mullick A N
Some studies on the effect of thermal treatment on the physico-mechanical behaviour of fly ash based pozzolanic compacts	Mondal Anshuman	Mandal T
Two phase flow studies-A CFD modelling	Mondal Prantik	Ghanta K C and S.K.Lahiri
Free radical grafting onto pretreated rice straw for enhancing flame retardancy and durability	Mukherjee, A	Halder, G.
Thermal Treatment of Plastic Wastes and Recovery of Value- Added Products	Mukherjee, Ankita	Gupta, P, Ruj, B., & Sadhukhan A. K.
Experimental investigation on fluoride removal using integrated technique	Mukherjee, S.	Halder, G.
Investigation on bubble dynamics in natural circulation boiling loop: visualization technique	Naik L.Jithender	Paruya, S.
Development of photo-catalyst for waste water treatment	Pal, Madhubonti	Mandal, M. K.
Photo-Catalytic membrane for hospital waste water treatment	Pandey, Shailesh Ku-mar	Mandal, M. K.
Simultaneous Physicochemical Separation, treatment and reuse of industrial wastes to save the natural resources.	Pathak Uttarini	Mandal T, Das Papita & Kumar Tarekeswar
Studies on the production of ethanol from waste starchy biomass	Mondal Payel	Sadhukhan, A. K., Ganguli, A., & Gupta, P.
Modelling and Experimental Investigations on Gasification of coal	Prabhakar Ashok	Sadhukhan, A. K. & Gupta, P.
Treatment of Coke Oven Waste Water Using Hybrid Technology	Pramanik Sabyasachi	Ghanta K.C. & Dutta S.
Anaerobic digestion of organic wastes laden wastewater for methane enrichment	Rahaman Wasi Ur	Halder, G.

Topic	Investigator	Supervisor(s)
Nonlinear model predictive control of complex density wave oscillations in boiling channel	Roy Koustav	Pauya, S.
Novel Techno-economic Evaluation for Conversion & Re-refining of Used Lubricating Oils to Base Oil	Roy Sushanta Kumar	Das B. , Kumar, T., & Das ,S. K.
Replacement of Chlorofluorocarbons from conventional refrigeration systems for the mitigation of environmental negative impacts	Roy Zunipa	Halder, G.
Production of Bioethanol from Sugarcane Bagasse in a Membrane - Integrated Hybrid System	Saha Koel	Sikder, J.
Study on management of pharmaceutical industrial waste water by Advanced oxidation process	Sarkar Kalyan	Mandal T
Study of the impact of physico-chemical and combustion characteristics of Coal on Power Plant Steam Generator Efficiency, in the context of Indian Power Industry	Sarkar, Ashok	Sadhukhan, A. K., Chatterjee, P. K. & Gupta, P.
Phycoremediation of Heavy Metals from Wastewater	Sen Sushovan	Dutta, S.
Process development of nanocellulose biopolymer production from rice straw , its characterization, dispersibility, derivative design, and stability study	Sharma Amita	Mandal T
Pyrolysis of Plastic Waste for Recovery of Fuel and Value Added Products	Singh Rohit	Gupta, P., Ruj, B. & Sadhukhan, A. K.
Experimental study on defluoridation of contaminated wastewater using agricultural waste derived sorbent materials	Thakre Prashil	Halder G.h
Phycoremediation of Cyanide and carbon di oxide Sequestration using microalgae : An Integrated approach	Upendar Ganta	Dutta S. & Ghanta K. C.

Department of Chemistry

Topic	Investigator	Supervisor(s)
Transition Metal Complexes containing imino phenoxy ligand: Synthesis, Characterization and Biological Studies	Banerjee Barsali	Saha T. K.
Modelling Biological Ni Sites with Supporting N, S Donor Ligands	Bhandari Anirban	Patra A. K.
Development of Novel Screening Material for Harmful Electromagnetic Radiation Using Designed Fluorescent Molecules Conjugated with MWNTs and Magnetic Nanoparticles	Biswas Sourav	Panja S S
Development of an Advanced Treatment Scheme for the Degradation of the Toxic Organics Associated with Pharmaceutical Wastewater	Chakraborty Sucharita	Saha R. N.
Chemistry of various p- and d-block metal complexes having different N,O donor sites: catalytic and sensor applications	Chatterjee Sourav	Sukul D., Banerjee P. AND Chattopadhyay T.
Design, structural characterization and catalytic activities of a few transition metal complexes with (N,N) & (N,O) donors sites	Chowdhury Biswajit	Maji M., Biswas B. (Raghunathpur College)

Topic	Investigator	Supervisor(s)
Synthesis structural characterisation and materialistic aspects of some transition metal complexes with (N,N) & (N,O) donors ligands	Das Subrata	Maji M., Biswas B. (Raghunathpur College)
A MD Simulation study on the human Monoamine Oxidase structures and its complexes	Dasgupta Subrata	Mukhopadhyay B.P.
Synthesis Characterization and Biocatalytic Activity of Some Transition Metal Complexes with Different polydentate chelators	De Abhranil	Maji M., Biswas B. (Raghunathpur College)
Treatment of wastewater generating from Textile industry by nano materials (nZVI), nano-Fenton's and UV radiation	Dutta Suvanka	Saha R. N.
Synthesis & catalytic aspects of a few transition metal complexes towards different organic transformations	Garai Mamoni	Maji M., Biswas B. (Raghunathpur College)
Ground Water Remediation by Nanoscale Zero Valent Iron	Ghosh Ananya	Saha R. N.
Assessment of chemical and physico-chemical properties of micro and macro algal lipids for biodiesel production	Guha Thakurta Sohini	Chakrabarty J.
Isolation, Purification and Structural Characterization of Polysaccharides from Some Indian Fruits	Hazra Surajit	Adhikari U.
Kinetics and mechanistic study of Pt(II)/Pd(II) metal ion systems with bio-relevant molecules: their bioactivity and theoretical study	Mahata Sujoy	Moi S. C.
Biological Cu Sites Modelling	Mishra, Saikat	Patra, A. K.
Aspects of substitution reaction on Pt(II) and PD(II) metal ion system by im-portant biomolecules in aqueous medium: their kinetics, mechanism, bioactivity and speciation study	Mitra Ishani	Moi S. C.
Carbon carbon bond formation via Redox Reactions: Green chemistry exercise and role of nano architecture	Mondal Bibhas	Adhikari U.
Removal of Arsenic by modified Adsorbent	Mondal Prasanta	Saha R. N., Ruj B.(CMERI Durgapur) and Debbarma S.R.(CMERI Durgapur)
Metal Complexes of Schiff Base Ligand Having Different Functionalities: Synthesis, Characterization and Biological Studies	Mondal Shyam Sundar	Saha T. K.
Synthesis of Fe, Co oxide/carbonate using urea as neutralizing agent and evaluation of their electrochemical sensing properties	Mukherjee Priyanka	Adhikari U.
The molecular dynamics simulation studies on Thyroid hormone receptor	Mukherjee Soumita	Panja S S
In vitro anticancer property of Pt(II) and Pd(II) complexes with (N,N) bidentate ligand: kinetics,bioactivity and theoretical study	Mukherjee Subhajit	Moi S. C.
Investigation on the extracts of Tradescantia pallida, Swertia chirata, Butea monosperma and Amaranthus gigasticus as green corrosion inhibitors for mild steel in hydrochloric acid medium.	Mukhopadhyay Shipra	Adhikari U.
Study of some bioplymers as corrosion inhibitor of mild steel in acid medium	Pal Aparesh	Sukul D.

Topic	Investigator	Supervisor(s)
Treatment of wastewater generating from Chlor-alkali industry by advanced Oxidation Process	Pobi Krishnendu Kr.	Saha R. N.
Development and study of Pyrene-based fluorescent sensors along with their applications	Sarkar Soma	Panja S.S. and Saha R. N.
Anti-corrosive activity of certain bio-relevant molecules: study of synergistic effect	Satpati Sanjoy	Sukul D. and Banerjee P.
Development of New Molecular Device for Sensing Physiologically Important Metal Ions	Sikdar Anindita	Panja S.S.
Recycling of cooking oil & its evaluation as biodiesel and culinary media	Singh Sunita	Chakrabarty J.
Synthesis of Low-Dimensional Transition Metal Oxides and the Study of Their Catalytic Activities for the Detoxification of Environmental Contaminanats	Thakur Indrani	Saha R. N.and Chatterjee S.
An experimental and theoretical investigation on Pt(II) and Pd(II) complexes: Their cytotoxic activity, kinetics, mechanism and DFT study	Venkata Pera Reddy B	Moi S. C.

Department of Civil Engineering

Topic	Investigator	Supervisor(s)
Investigation on characteristic strength and behaviour of concrete confined with UPVC tube.	Bandyopadhyay, Atrayee	Samanta A.K., Singha Roy D.K.
Numerical Modelling of highway pavements under dynamic conditions	Banerjee, Arijit	Topdar P., Datta, A.K.
Effect of Building durability on seismic vulnerability assessment	Chanu, N.M.	Nanda, R.P.
Geo-Information System based assessment of Flood Induced Crop Damages for Crop Insurance Industries - A Case Study of Cuttack District, Odisha, India	Chhabra, Ajeet	Dwivedi, V.K.
Performance Study of Asymmetric Structures under Static & Dynamic Loads	Das, Debiprasad	Das, D., Topdar, P.
Runoff prediction in Lower Gangetic Basin amid climate change variation	Dey, Kush Kumar	Dwivedi, V.K.
A study of stability designs of the different types of Floating Offshore Wind Turbine (FOWT) system by integrated-coupled analysis under environmental loadings	Dey, Swarnadip	Banik, A.K. & Roy P.
Earthquake response of pile foundation in liquefiable soil	Dutta, S.	Nanda, R.P.
A Study of Progressive Collapse of Steel Frames due to Explosion and Post Explosion Fire	Galal, Mohamed Ahmed	Banik, A.K.
Experimental analysis for plan form development and erosion around an island in a natural stream	Ghosh, Snigdhadip	Dwivedi, V.K.
Retrofitting of Brick panels by Geosynthetic	Khan, H.A.	Nanda, R.P., Das, D.
Modelling of reservoir sedimentation using remote sensed technique	Kumar, Ritesh	Dwivedi, V.K.
Strengthening of RC beam by using Geosynthetic	Majumdar, S.	Nanda R. P & Saha, S.
Reliability Based Design of Geotechnical Structures under Static and Dynamic Conditions	Mazumdar, Ratul	Banik, A.K., Das, D., Pal, S.
Experimental Investigation on the Strength and Behaviour of Plate Reinforced Concrete Beam	Mondal, Prakash	Singha Roy D.K., Samanta A.K.
Effect of high speed train induced vibration on adjacent structures	Mukherjee, R	Datta, A.K., Topdar P.

Topic	Investigator	Supervisor(s)
Biological treatment of effluents from bulk drug industries	Mukhopadhyay, Miriganka Sekhar	Dwivedi, V.K., Bhattacharya, S., Mukhopadhyay, S.S.
Development of vibration based structural damage detection, localization and assessment strategy	Paral, Animesh	Singha Roy, D.K & Samanta, A. K.
Rutting Analysis By Using Construction And Demolished Waste For Low Volume Roads	Ray, Arpan	Nanda R. P & Roy, P.
Coupled Nonlinear Analysis of Floating Offshore Structures	Roy, Shovan	Banik, A.K.
Modelling for avulsion of river Kosi System lying in India and Nepal	Saha, Dripta	Dwivedi, V.K.
Thermo-mechanical effects on sustainable concrete containing industrial waste	Sahani, Ashok Kr.	Samanta, A.K., Singha Roy, D.K
Active and passive vibration control of nonlinear flexible systems	Mandal, Saikat	Banik, A.K. & Mitra R. K.
Durability study of FRP Strengthened RC structures in different environmental exposure	Marthong, Shembiang	Datta, A.K., Topdar P.
Effect of landuse /landcover dynamics on the spatio-temporal changes of urban heat islands and its effect on the environment	Yadav, Naval Kishor	Samanta A.K., Santra A.

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
A framework for measuring the semantic relatedness between concepts	Adhikari, Abhijit	Dutta, A., Dutta, B.
Automated computer aided diagnosis for screening of lungs disease	Agarwala, Sunita	Nandi, D.
Quantifying Driver's Performance in Developing Regions Through Smartphone Sensors	Alam, M Y	Nandi S, Saha S, Saha M
EHD Inkjet Printing System	Ball, Amit Kumar	Kisku, D.R., Murmu, N.C. (CMERI), Roy, S.S.
Cloud Computing: A Mechanism design perspective	Bandyopadhyay, Anjan	Mukhopadhyay, S.
Natural language Information Interpretation and Representation System	Banerjee P.S	Chakraborty B.
A Study on Design Specification for Component Based Software System	Banerjee, Prasenjit	Sarkar, Anirban
Ontology Driven Domain Specific Software Design	Banerjee, Shreya	Sarkar, Anirban
Pattern approach for different lungs airways diseases using CT/HRCT images	Banik, Samiran	Nandi, D.
Studies on Multicast Routing and Wavelength Assignment in WDM Optical Networks	Barat, Subhendu	De, T.
Optimization in Image Processing	Chakraborty, Falguni	Nandi, D.
Machine learning approach for CT image analysis in cancer detection	Chakraborty, Tiyasa	Nandi, D.
Functional Specification for User-Centric Service Oriented Enterprise Architecture Framework	Chakroborty, Priyanka	Sarkar, Anirban
Novel algorithms for multi-agent coalition formation	Changder, Narayan	Dutta, A., Aknine, S.
Modelling of Multi Agent System Dynamics	Chatterjee, Rajib Kr.	Sarkar, Anirban
CAD system design for glaucoma detection	Chowdhury, Arindam	Nandi, D
Design of Computer Aided Diagnostic System for Glaucoma Detection	Chowdhury, Arindam	Nandi, D.

Topic	Investigator	Supervisor(s)
Novel Techniques & Analysis for Tourism and Spectrum Trading	Chowdhury,Anil Bikash	Mukhopadhyay, S.
A Study on Some Routing, Energy and Security Issues Concerning The Delay Tolerant Network	Das, Priyanka	De, T.
Multicast Traffic Grooming Routing and Spectrum Assignment in Elastic Optical Network	Datta Choudhury, Panchali	De, T.
Knowledge Management Systems for Fault detection and diagnosis	De. Sumana	Chakraborty B.
Knowledge Management Systems for Fault detection and diagnosis	De. Sumana	Chakraborty B.
Network Traffic Analysis and Modelling	Debroy. Subhasish	Chakraborty B. Bhattacharjee A.K.* (ECE) Hussain K.M. (BCREC)
Network Traffic Analysis and Modelling	Debroy. Subhasish	Chakraborty B.Bhattacharjee A.K.* (ECE) Hussain K.M. (BCREC)
Pattern Matching	Dev, Deep Suman	Kisku, D.R.
Network Design Optimization through Evolutionary Algorithm	Dutta Joydeep	De, T. Kar, S. (Mathematics, NIT DGP)
Energy Aware Delay Tolerant Network Framework Design	Dutta K N	Saha S
Cohort Selection for Biometrics Authentication	Garain, Jogendra	Kisku, D.R., Sanyal, G.
Brain MR/CT Image Segmentation and Early Detection of Neuro-degenerative Diseases Using Machine Learning Techniques	Ghosal, Palash	Nandi, D.
Indoor Activity Identification through pervasive sensing	Ghosh A	Saha S, Saha M,
Ultrasound image enhancement via super-resolution	Ghosh, Dipannita	Nandi, D.
Challenges in Developing Networking Services for Post-Disaster Rescue-Relief Scenarios	Hazra K	Nandi S, Saha S
Hardware Trojan Attack: Threat Analysis, Counter Measures Targetting Enhanced Cache Performance in a Many-core System	Hazra, Suvadip	Dalui, M.
Salient Object Feature Extraction from Remote Sensed Images	Hermese, Jose	Chandran Saravanan
Offline Recognition of Malayalam Handwritten Text	James,Ajay	Chandran Saravanan
Travelling salesman Problem in Different Environments Using Hybrid Evolutionary Computing Algorithm	Khanra, Aditi	Pal, T. Maiti M. K.Maiti M
Analysis and Specification of an Inter-Cloud Architecture: An Abstraction Model	Khan, Gitosree	Sarkar, Anirban
Novel Approach for DDoS Attack Detection and Mitigation in the Server Application [PhD thesis Viva voce on June 04, 2018]	Khundrakpam, Johnson Singh	De, T.
Information retrieval from biomedical images for early detection of neuro diseases	Kumar, Amish	Nandi, D
On fault-tolerant design of logic circuits in QCA	Kumar, Dharmendra	Mitra, D
Ensemble Face Recognition	Kumar, Dipak	Kisku, D.R.
Human Attention Identification	Kumar, Ravi Kant	Kisku, D.R., Sanyal, G.
Semantic analysis of natural language texts.	Kumar. Manish	Chakraborty B.
Semantic analysis of natural language texts.	Kumar. Manish	Chakraborty B.
Dynamic rescheduling and coordination in Multi-agent systems.	Kundu, Krishnendu	Dutta, A.

Topic	Investigator	Supervisor(s)
A Set of Super Classifier combination for Efficient Biometric Identification	Kundu, S (Thesis Submitted)	Sarker, G.
Manipuri Signature Verification	Longjam, Teressa	Kisku, D.R.
Design and Analysis of Light Weight Physically Unclonable Function (PUF) Targeting Cost Effective Hardware Security	Mahabub,Mahalat Hasan	Sen, Bibhash
Study the importance of Insertion and Deletion(Indel) in phylogenetic inference through computational approaches"	Mahadani Asim	Sanyal,G., Bhattacharjee, P.
Some Network Optimization Models under Diverse Uncertain Environments	Majumder, Saibal	Pal, T, Kar, S
Bengali Parser capable of handling domain specific natural language queries in	Mandal Kailash P.	Chakraborty B.
Bengali Parser capable of handling domain specific natural language queries in	Mandal Kailash P.	Chakraborty B.
The Impact of Rational and Adversarial Player in Secure Multiparty Computation and its Counteracts.	Mardi,Dhaneshwar	Mukhopadhyay, S. Howlader, J.
Human action classification from video	Mishra Soumya Ranjan	Goutam Sanyal, Anirban Sarkar
Microwave based biomedical diagnostic system design	Mondal Moutusi	Nandi, D.
Design of Effective Data Mining Techniques for Various Sources of Situational Data in Disaster Response Scenarios	Mondal T	Saha S, Bhattacharya I (KGEC)
Hardware Security	Mondal, Anindan	Sen Bibhash, Roy Suchismita
Query Response Frameworks to handle domain specific queries in natural language	Mondal. Dipa	Chakraborty B.
Query Response Frameworks to handle domain specific queries in natural language	Mondal. Dipa	Chakraborty B.
Design and analysis of cost efficient QCA logic Circuit with enhanced reconfigurability	Mrinal, Goswami	Sen Bibhash
Video text processing	Mukherjee Amit	Chakraborty B., Nandi Debashis, Pal Umapada (ISI, Kolkata)
Video text processing	Mukherjee, Amit	Chakraborty B., Nandi Debashis, Pal Umapada (ISI, Kolkata)
NLP based Knowledge Management Systems	Mukherjee. Prasenjit	Chakraborty B.
NLP based Knowledge Management Systems	Mukherjee. Prasenjit	Chakraborty B.
Development and analysis of steganographic techniques with non linear extensions	Mukherjee Srilekha	Sanyal, G.
Design of low cost, low resolution single camera based stereo vision system for computer vision application	Murmu, Narayan	Nandi, D.
Efficient Communication between Optical and Wireless Hybrid Networks	Naik, Deepa	De, T.
Identifying Influential Spreaders : A Graph Analytics Approach	Namtirtha, Amrita	Dutta, A., Dutta, B.
Modelling and Performance Analysis of Wireless Sensor Network	Ojha Rudra Pratap	Sanyal, G, Srivastava, P.K.
Investigation and Development of Steganography Schemes	Patel, Sunil Kumar	Chandran Saravanan

Topic	Investigator	Supervisor(s)
Challenges in Developing Networking Services for Post-Disaster Rescue-Relief Scenarios	Paul, P S	Nandi S, Saha S
Analysis and Modelling of Colour Image Compression for Multimedia Applications	Poolakkachalil, Thafseela Koya	Chandran Saravanan
Optimization of Economic load Dispatch and Short Term Hydro Thermal Scheduling Using Grey Wolf Optimization and Krill Herd Algorithm	Pradhan, Moumita	Pal, T, Roy, P
Some Studies on Data Communication and Applications in VANETs	Pradhan, Rangaballav	De, T
Some Studies On Scheduling and Routing Technique in WBANs with improved performance	Prajna Paramita Pradhan	Bhattacharjee, S.
Estimating, Identifying & Predicting Outdoor Air Pollution in Developing Regions through pervasive sensing	Pramanik P	Saha M
Dynamic Traffic Grooming using Light path and Light-trail concepts in Elastic Optical Networks	Prasanta Majumder	De, T
Alphanumeric Character Recognition Using Some Stochastic Tools	Prasad Binod Kumar	Sanyal, G.
Face Recognition	Rana, Srinibas	Kisku, D.R.
Sensor Network Optimization in Computational Intelligence Paradigm	Sardar, Monalisa	Pal, T, Bhattacharya, S
Study And Analysis Of Security Issues In Cloud Computing	Saxena Sandeep	Sanyal, G.
A Graph Data Model in Semantic Web Environment	Sen, Sangeeta	Dutta, A., Dutta, B.
IoT based Indoor Environment Data Modelling and Prediction	Sharma Praveen	De, T., Saha, S
On the study of crowdsourcing, participatory sensing, and its applications to healthcare.	Singh,Vikash Kumar	Mukhopadhyay, S.
Studies and analysis of Brain MR Images and classification for detection of some Neurodegenerative Diseases	Srinivasan. A	Goutam Sanyal, P. Bhattacharjee

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
Some aspects on dynamics and control of dc-dc switch mode power converters (Defence Seminar held on 09.05.17)	Ghosh Arnab	Banerjee S
Load Frequency Control of Linear and Non-linear based Multi-area Power Systems using Various Evolutionary Algorithms (Defence Seminar will be held on June, 2017)	Guha Dipayan	Banerjee S
Some Studies on Control and Modulation Strategies of Multilevel Converters Applicable for Drives and Photovoltaic's Applications	Giri Santu Kumar	Banerjee S, C Chakraborty
Chaos and Periodicity in Solar Wind Speed	Sarkar Tushnik	Banerjee S, Khondekar H M
Enhancement of available transfer capability incorporating FACTS devices for large scale power systems by using meta-heuristic algorithms.	Mazumder Kingshuk	Banerjee S, Roy P
Robust Control of Mimo systems	Pandey Sumit	Dey J, Banerjee S
Some Aspects on Control and Modulation Strategies for Multilevel Converters Suitable for Medium-to-low Power Applications.	Mukherjee Sarbani	Banerjee S
Design, Fabrication & testing of some advanced dc-dc switch mode power converters.	Rana Kumar Niroj	Banerjee S

Topic	Investigator	Supervisor(s)
Design & Implementation of Modified Selective Harmonic Elimination (SHE) & Selective Harmonic Minimization (SHM) PWM Techniques for improving Performance of Multilevel Inverters	Kundu Sourabh	Banerjee S
Optimal placement and sizing of facts devices and distributed generation in power system	Sriparna Roy Ghatak	Acharjee P.
PMU Placement using soft-computing techniques, post-mortem analysis and state estimation with PMU data	Tapas Kumar Maji	Acharjee P.
Optimal Allocation of DG and DSTATCOM in Distribution Networks considering Practical Aspects	Surajit Sannigrahi	Acharjee P.
Application of soft computing techniques in constrained compensated power systems	Deepro Sen	Acharjee P.
Design optimization of Electrical Machines	Das Pratyush Prasanna	Mahato S. N.
Investigation on condition assessment of insulating oils using high k dielectric nanofluids for power transformer application	Arun Ram Prasath R T	Mahato S. N., Roy N. K.
Analysis and Control of Isolated Induction Generators	Ray Sambaran	Mahato S. N., Roy N. K.
Some Studies on Analysis and Control of Stand-Alone Induction Generator	Samajpati Dipanjan	Mahato S. N.
Discrete Time Sensorless IM Control for Electric Vehicles	Swargiary Manoj	Dey J. &. Saha T. K.
Control and Analysis of Distributed Generation Systems	Mishra Rupa	Saha T. K.
Standalone PV Application in Electric Drives for Different Applications	Ghosh Sourav	Saha T. K.
Control and Analysis of Multi-Input Converter for Hybrid Wind-Solar-Battery based System	Sen Dibyendu	Dey J. &. Saha T. K. .
Generator Modelling and Control for Renewable Energy Applications	Sekhar T. N. S. C.	Saha T. K.
Modelling of PMU for Measurement and Islanding detection in Smart Grid	Kumar D.	Bhowmik P. S.
Design of Full mode Half mode and corrugated substrate integrated wave guide (SIW) band pass filter in microwave band	Moitra S.	Bhowmik P. S.
Development and Design of Fractional Order Compensator	Mondal Reetam	Dey J., Halder S.
Investigation on the modulations of autonomic nervous System based on metabolic syndrome risk factors	Das Ashis Kumar	Halder S.
Analysis of Heart Rate Variability based on Non-invasive Physiological variables	Mukherjee Mithu	Halder S.
Feature extraction from ECG signals at various pollution levels	Kumar Prashant	Halder S.

Department of Electronics and Communication Engineering

Topic	Investigator	Supervisor(s)
Application of Defective Ground Structures on Designing Microstrip Patch Antennas	Acharjee J.	Mandal S. K., Mandal K. (IRPE, CU)
On certain aspects of relayed free space optical channel	Bag Banibrata	Chandra, A. and Bose, C.
Studies on Reconfigurable Multiband and Wideband Microwave Bandpass Filters	Bandyopadhyay, Anjan	Ghatak, R &Mondal, T. (ECE Dept., Dr. B C College of Engineering)
Some Studies on Antenna Using Fractal Shapes for Ultrawideband Radio Systems from Jadavpur University	Biswas, Balaka	Ghatak, R &Poddar, D. R. (ETCE Dept., Jadavpur University)

Topic	Investigator	Supervisor(s)
Statistical signal processing based reconnaissance to explore the kinematics of coronal mass ejection & its impact on Earth	Chattopadhyay Anirban	Chandra, A. and Roy, S.D. and Bhattacharjee, A. K.
Studies on Substrate Integrated Waveguide based Wideband and Multiband Antennas	Chowdhury, Deblina	Ghatak, R
Performance analysis of free space optical communication channel	Das Akinchan	Chandra, A. and Bose, C.
Dielectric Engineering for GaN HEMT Devices	Das P	Mahapatra R & Chakraborty A K
Antenna Array Optimization Considering the Mutual Coupling Effect Using Evolutionary Optimization Techniques	Das, Avishek	Kar, R. and Mandal, D.
Relay node placement for maximizing energy efficiency in wireless networks	Ghosh Biswajit	Chandra, A. and Mal, A.K.
OPAMP design using submicron MOS	Ghosh, Sumalya	Mal, A. K
Studies on Planar Ultrawideband and Superwideband Antennas for Emerging Wireless Systems Applicability	Gorai, Abhik	Ghatak, R
Study on Design of Multiband Microstrip-Patch Antennas for Wireless Devices	Goswami S.	Mandal, S. K.
Studies on Broadband and Multiband Planar Antennas Based on Reactive Impedance Surface and Composite Right/Left- Handed Transmission Line	Jash, ShyamSundar	Ghatak, R
Time domain Analog to Digital Converter (TDC)	Krishna, SSMR	Mal, A. K Mahapatra, R
Studies on Design and Performance of Planar Ultrawideband Bandpass Filters	Kumari, Puja	Ghatak, R
Resistive memory devices	Maji S	Mahapatra R
Resistive memory devices	Maji S	Mahapatra R
VLSI Circuit Design optimization using evolutionary optimization techniques	Maji, KanchanBaran	Kar, R., Mandal, D. and Ghoshal, S. P.
Physical layer security in Cognitive Radio Network.	Maji, Pranabesh	Kundu, S., DharRoy, S.
Optimal sizing and design of CMOS analog circuits using evolutionary optimization techniques	MallickSoumen	Kar, R., Mandal, D. and Ghoshal, S. P.
Studies on Improving Radiation Characteristics of Time-Modulated Antenna Arrays	Mandal, S	Mandal, S. K.
On-chip Antenna : Fabrication and Characterization	Mandal, Sanjukta	Mal, A. K Mahapatra, R, Mandal, S. K
Multi hop Cognitive Radio Networks with Energy Harvesting Relays	Mandal, Soumen	Kundu, S, DharRoy, S
Synthesis of Different Antenna Array Geometries using Evolutionary Algorithms and Time Modulation Strategies	Mukherjee A.	Mandal, S.K., Ghatak, R.
Gas Sensors	P.Tiwary	Mahapatra R & Chakraborty A K
Graphene based materials for sensing application	Pal H	Mahapatra, R. & Chatterjee, S.
Efficient Non-linear system identification schemes using evolutionary optimization techniques	Pal ParthaSarathi	Kar, R., Mandal, D. and Ghoshal, S. P.
VCO Design for voice band signals	Panda, Madhusmita	Mal, A. K, Pattanaik, S
Synthesis of Mutually Coupled Dipole Antenna Array using Evolutionary Algorithms.	Patidar Hemant	Mahanti, G. K.
Some Studies on Synthesizing Power Patterns in Time-Modulated Antenna Arrays using Evolutionary Algorithms	Patra S.	Mandal, S. K., Mahanti, G. K.
Compact modelling of LD-MOS devices	Sahoo J	Mahapatra, R.

Topic	Investigator	Supervisor(s)
Adiabatic logic circuits	Samanta S	Mahapatra, R. & Mal, A. K.
Physical layer security in Cognitive Radio Network with cooperative Jamming	Sharma, Sashibhushan	Kundu, S
On-Chip Antennas for Bio-Telemetry Application	Singh H.	Mandal, S. K.
Optimal Digital IIR Filter Design using Evolutionary Optimization Tech-niques	Upadhyay Prashant	Kar, R., Mandal, D. and Ghoshal, S. P.
Distributed detection in Cognitive radio Network with efficient spectrum sensing under attackers	Yadav, Kuldeep	Kundu, S, DharRoy, S

Department of Earth and Environmental Study

Topic	Investigator	Supervisor(s)
GIS based land resource evaluation and management for agricultural sustainability in an affected area of coal-fired thermal power plant.	Adak Subhas	K. Adhikari, K. Brahmachari
Impact of chemical pesticides and fertilizers on the environment as a whole – A case study	Adhikary Mayukh	A. Gangopadhyay, K. Bramhachari
Reappraisal of the depositional setting of Upper Barakar coal beaing strata from Raniganj Basin, India- a sedimentological, ichnological and coal petrographic approach	Banerjee Sudipto	K. Adhikari, S. Bandyopadhyay
A comprehensive study on Environmental Management System (EMS) as practiced in selected industries in West Bengal, India and its impact on society	Ghosh Bipasha Mridha	A. Gangopadhyay
Investigation of Emerging Contaminants effect on Hooghly River Ecosystem at Kolkata Stretch, West Bengal	Lokenath Chakraborty	Sandip Mondal, Subir Kumar Nag
Removal of fluoride from aqueous solution using modified low cost materials.	Rakesh Kumar	S. Mondal
Analysis of potential impacts of open cast coal mine on hydrogeological dynamics in Barjora Area, West Bengal, India.	Ujjal Mal	K. Adhikari
Modelling of Subsurface transport of Engineered nanoparticles	Arghya Ghosh	S. Mondal, K. Adhikari
Development of Quantitative Tool for Assessment of Regional Sustainability of Coal Mining Area	Vineeta Prasad	K. Adhikari
Hydrochemical and Mineralogical Evaluation of the shallow (<80m) aquifer of Murshidabad District, West Bengal, India	Rhitwik Chatterjee	K. Adhikari
Optimisation of Sustainable Integrated Municipal Solid Waste Management System through Case Studies.	Arpan Chattopadhyay	K. Adhikari, S. Pal

Department of Humanities and Social Sciences

Topic	Investigator	Supervisor(s)
Fantasy and Imagination as Perceived through the Simulated World of Digital Media	Bandyopadhyay, Mita	Modak, A.
Roberto Classo&;s Ka: A Critical Study	Bhattacharyya, S	Rai, S.K.
Exploration of Parsi culture, Rituals, Rites and their Nostalgia: A Study of Deena Mehta, Perin Barucha, Boman Desai and Farrukh Dhondy	Biswas Ujjwal	Banerjee J.
Image of Women in Select Plays of Mahesh Dattani and Poile Sengupta: A Critical Study	Howlader, Asoke	Modak, A.

Topic	Investigator	Supervisor(s)
Thematic Study of Contemporary Indian English Poets	Karmakar, G	Rai, S.K
DISCERNING THE FAMILIAR - An insight into the women's condition during the Taliban Regime	Mukherjee Marjana	Banerjee J.
Post humanism and Trans humanism in the 21st Century Dystopian Novels	Patra, I	Rai, S.K
Rainbow Rising: Novels From North-East India.	Paul, A.S	Rai, S.K
Post 9/11 Novels and Islam	Paul, S	Rai, S.K
Survival as Triumph in Paul Auster's Novels	Pramanik, Avijit	Modak, A.
The Fictions of Amit Chaudhuri: Creation of a Tradition	Roy Arnab	Banerjee J.
The Theater of Protest: A Critical and Comparative Study of the Selected Plays of Vijay Tendulkar and Utpal Dutt	Roy, Oliva	Banerjee J.
Postcolonial Study of Derek Walcott	Sengupta , T	Rai, S.K
Voices of the Margin: A feministic reading of the diasporic demarcation and minority discourse in the works of Chitra Banerjee Divakaruni	Sengupta Debalina	Banerjee J.
Diaspora and Economic Development	Kahali, Aloke	Sengupta, P.P.
Remittances and Economic Development in India	Dutta, Ujjal Protim	Sengupta, P.P.
FDI and Economic Performances in Developing Countries	Sinha, Madhabendra	Sengupta, P.P.
Decision Making Process of Farmers	Mukhopadhyay, Partha	Sengupta, P.P.
ICT and Technical Higher Education in India	Nandi, Anita	Sengupta, P.P.
Marketing Management in Selected Indian Industries Women Empowerment	Lal, Seema	Sengupta, P.P.

Department of Management Studies

Topic	Investigator	Supervisor(s)
Factors Affecting Investment Behaviour In Mutual Fund Industry-An Indian Perspective	Banerjee Soumya	Bandyopadhyay, G., Ghosh.A.
A Quest for Relationship among CSR, Marketing Activities and Business Performance: A Cross Industry Comparison on Indian Firm	Banerjee Sujata (Submitted)	Mondal K.
A Study on Predictability of Stock Returns and Behavioral Biases	Banerjee, A.(Submitted)	De, A., Bandyopadhyay, G.
Exploring Employee Engagement Vis-à-vis its Correlates among the Employees of Indian Organizations: An Empirical Investigation.	BardhanShravana.	Pal, D.
Economic Sustainability and Strategic Management of Cultural Capital: An Exploratory Study with Special Reference to West Bengal	Basu, A.	De, A.
Production Management through Optimisation strategy	Basu, S.	Roy M., Pal, P.
Role of Product Information on Purchase of Durables A Competitive system on low literacy Urban language in the State of West Bengal	Bhattacharjee, M.,	Bandyopadhyay, G.,
The Market Impact of Corporate News Release: Indian evidence	Bhattacharjee, N.	De, A.
Investor behavior in Durgapur and Asansol Region	Bhattacharya, Amrita	A. Dutta
Financial Analysis and Planning in Indian Urban Local Self Governments- A Theoretical and Empirical Study	Bhattacharyya, S. R (Submitted)	De, A.
An Investigation into the applications of Big Data Analysis in Supply Chain management	Biswas, S.,	Bandyopadhyay, G.,

Topic	Investigator	Supervisor(s)
A Study on Workplace Adaptability: An Indian Perspective	Bose Sujata.	Pal D.
Harnessing The Association Between Inherent Interests Of Employees With Key Leadership Competencies For Organisational Development In Indian Industries.	Chaki, MainakRanjan	Bandyopadhyay, G.,
Sustainable Development in Educational Institutions	Chakraborty A.	Roy, M.
Investigating and Forecasting the financial Performance and Operational Efficiency of Indian Paint and allied Industry	Chakraborty, S.,	Bandyopadhyay, G.,
A study on effective management of national economic planning using soft computing based techniques	Chandra, M. M.,	Bandyopadhyay, G., & Banerjee, N.,
In Search of nature of Relationship Between Internal Marketing and Financial Performance of the Company: A Study of Hotels, Hospitals and Banks operating in Kolkata	Chattopadhyay Rituparna	Mondal K.
A quest for relationship among socio demographic variables and various facets of sales promotion	Chel, Saswati	Mondal K.
Understanding Various Facets of Purchase Involvement; A Study of Burdwan , WB	Dasgupta (Banerjee) Monami (Submitted)	Mondal K.
A Study on Corporate Social Responsibility and its Impact on the Performance of Indian Corporate Sector	Deb, D.	De, A.
Attitude of Indian young generation towards online marketing (PhD defence seminar & viva voce completed)	Ghosh Debasis	Baneerjee Neelotpaul
Frauds in Public Sector Banks of India: A Study to Find out the Factors and Impact	Ghosh, S. K.	De, A.
Determinants of the Pharmaceutical Education Service Quality: An Empirical Quest based on Eastern India	Gupta Hemant	Mondal K.
Estimation of systemic risk and identification of systemically important firms in India	Karmakar, S.,	Bandyopadhyay, G.,
Performance Evaluation and Risk Analysis of Commercial Banks: A Study on SAARC countries	Laha, S.	De, A., Bandyopadhyay, G.
Impact of Financial Cognition and Mental Accounting on Personal Financial Planning – A Study on Indian Households	Mahapatra, M. S.(Submitted)	De, A., Raveendran, J.
An Empirical Quest for Various Aspects of Brand Switching	Maji, S.,	Bandyopadhyay, G.,
Determinants of Property Liability Insurance market in post-reform era and its relationship with economic growth in India	Mukherjee Abhijit	Ghosh Amlan
An empirical study on the impact of social media to facilitate the effectiveness of marketing	Mukherjee, Kaustav (Submitted)	Baneerjee Neelotpaul
A study of evolution, growth and decline of small brands of apparels in India	Naveen Arora (Submitted)	Baneerjee Neelotpaul
Prediction of Nifty 50 for Retail Traders/Investors with Special Emphasis on Technical Analysis"	Paul, Pinaki	A. Dutta
An Empirical Study on the Nature, Determinants and Consequences of Psychological Capital of a Group of School Teachers in West Bengal.	Paul, Sudip.	Pal, D.

Topic	Investigator	Supervisor(s)
A study on various aspects of consumer behavior in context to different products and services –A comparison between consumers in India and USA	Samanta Jyotirmoy	Baneerjee Neelotpaul
How CSR Can Be Translated Into Various Employee's Outcome And Understanding The Embededness Of Decision Making In Indian Perspective	Samiran Sinha Roy	Ghosh.A.& Bandyopadhyay, G
Exploring Employee Green Behaviour- An Empirical Study on Organizations based in West Bengal	Sanyal Ujjal.	Pal.D
Registration pending	Sarkar Avijit	A. Dutta
Sustainable Management Strategies for small scale industries	Singh M.P.	Roy, M
Registration pending	Singh, Pranaykumar	A. Dutta
An empirical analysis on various facets of celebrity endorsements in Indian context	Singh, Ramendra Pratap (Submitted)	Baneerjee Neelotpaul
Assessing The Influence Of Organizational Culture On Employees Commitment: Evidence From Five Homogeneous And Ten Selective Heterogeneous Industry In India	Sinha, A K (Submitted)	Bandyopadhyay, G., Sengupta, P.P;
Analyzing the long term performance of IPO and Developing IPO indexing	Soumen Chatterjee	A. Dutta
Efficiency Analysis of Power Generating Units: A Study on Indian Power Plants	Srivastava. S. K.	De, A.

Department of Mathematics

Topic	Investigator	Supervisor(s)
Newsvendor Problems in uncertain environments	Adhikary, K.	Kar, S.
Dynamical Risk Analysis in Complex Environmental Matrices	Bandyopadhyay, A.	Kar, S.
Nonlinear waves in dusty and quantum plasma	Banerjee, Gadadhar	Maitra. S
Some fuzzy inference techniques and their applications to different fields	Basak, Sanghamitra	PanigrahiG , Jana D, Maiti M
Non-linear analysis	Bera, Ashis	Dey, L.K.
An Approach to Develop an Intelligent User-friendly Design of Website Inteface in Medical and Educational Domain in Indian Perspective	Bhattacharya, Gaurabh	Sarkar (Mondal), S.,
Panigrahi, G. & Karmakar, P.		
Study on Some Inventory Problems	Bhattacharya, Sandipa	Sarkar (Mondal), S.
Codes over rings	Bhowmick, Sanjit	Bagchi, S.
Some Transportation Problems in Different Imprecise Environments	Bhowmik, Sarbari	PanigrahiG , Jana D, Maiti M
Fixed point theory and Topology	Chanda, Ankush	Dey, L.K.
Supply chain risk assessment and its management	Chatterjee, K.	Kar, S.
Cryptography	Das, D.	Basu, K.
Some Bio-Mathematical Models In Crisp and Uncertain Environments	De, Anupam	Panigrahi G, MaityKalipada ,Manoranjan Maiti
Some Inventory Models with Transportation in Supply Chain	Debnath, Sudeshna	Sarkar (Mondal), S.
Some New Probability Distributions: Properties and Statistical Inferences.	Dey, Mithu	Sarkar (Mondal), S. & Maiti, S.S.

Topic	Investigator	Supervisor(s)
Topological fixed point theory	Garai, Hiranmoy	Dey, L.K.
Magnetoconvective instabilities in liquid metals	Ghosh, Manojit	Pal, P.
Labelling of graphs and Hypergraphs	Ghosh, Poulomi	Pal, A.
Graph labelling and its applications	Ghosh, Sumonta	Pal, A.
Data Mining Techniques for social network analysis	Mandal, Shrabanti	Pal, A.
Auction Adaptive participatory Sensing	Mukhopadhyay, Jaya	Pal, A.
Restricted domination problems on graphs	Sinha, Angshukumar	Pal, A.,
Study of Some Mathematical Behavior of Topological Indices	Sarkar, Prosanta	Pal, A.
Study on some graph invariants and their applications	Mondal, Sourav	Pal, A.
Assignment problem in fuzzy environment	Kar, S.	Basu, K.
Topological fixed point theory	Karmakar, Surajit	Dey, L.K.
Some Inventory Models for deteriorating/Breakable Items In Different Environment	Kundu, Anindita	Panigrahi G, Das B, Maiti M
Modelling of Some Earthquake Processes in Different Media during Aseismic Period	Kundu, Piu	Sarkar (Mondal), S
Optimal synchronization in complex networks	Kundu, Prosenjit	Pal, P.
Stochasticticity in ecology and epidemiology	Kundu, S	Maitra. S
Neutrosophic sets & fuzzy system	Mandal, K.	Basu, K.
Some Theoretical Models of Earthquake Processes due to Finite and Long Faults	Mondal, Debabrata	Sarkar (Mondal), S
Integration theory	Mondal, Pratikshan	Dey, L.K.
Rough Set Theory	Sharma Haresh	Kar, S.
RFID Systems: Security and Privacy	Mourya, Pramod Kumar	Bagchi, S.
On Some NP hard problems Using Heuristic Method	Mukherjee, Anupam	Panigrahi G, MaitiManoranjan
Collective phenomena in coupled oscillators	Nandan, Mauparna	Pal, P.
Interplay of structure and dynamics in multilayer networks	Khanra, Pitambar	Pal, P.
Overstability in rotating magnetoconvection of electrically conducting fluids	Banerjee, Ankan	Pal, P.
Centralizer codes	Pal, Joydeb	Bagchi, S.
Time Series Forecasting using Soft Computing Techniques	Pal, S. S.	Kar, S.
Optimal Control Problems in Uncertain Environments	Roul, J.N.	Kar, S.
Multi-criteria and Multi-objective decision making problems	Roy, J.	Kar, S.
A Mathematical Study of Eco-epidemiological Model with Special Emphasis on Chaotic Dynamics and its Controllization	Roy, Prodip	Sarkar (Mondal), S.,
Das, K.P. & Karmakar, P.		
Group codes	Roy, Saikat	Bagchi, S.
Reliability optimization	Samanta, A.	Basu, K.
Nonlinear Differential equations	Ghosh, Arindam	Maitra, S
Software Reliability	Panja, Arindam	Kar, S.
Supply Chain Modelling	Pramanik, Abhirup	Kar, S.
Robust optimization in network optimization problems	Dey Sarkar, Debapriya	Basu, K.

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Computational study of fluid flow and heat transfer in porous media	Behera Chinmayee	S. Pramanik
FE-based Simulation of Flow Forming of H30 Aluminium Alloys	Banerjee Prabas	Hui N. B.,
Multi Echelon Inventory Management	Das Debabrata	Hui N. B.
Power Generation from Municipality Waste	Dwivedi Krishna Kant	Pramanick, A. K. , Cjatterjee, P. K, Karmakar, M.
Optimization of Process Parameters of Different Fans in Thermal Power Plants	Dutta Anup	Hui N. B.,
Analysis of bimodular material laminated curved beam	Kumar Amrendra	K. Khan
Modelling of Psychosis Data Using Soft Computing	Kumar Ashish	Hui N. B., Chattopadhyay S.
Non-linear analysis of nuclear pipe bends subjected to complex loadings	Kumar Manish	K. Khan, P Roy
Coal based Power Generation System analysis with CO2 capture	Kumar Rajesh	Karmakar Sujit
Experimental and numerical study of heat transfer and flud flow through twisted square duct.	MAHATO SAMBHU KUMAR	Rana S. C. and Barman R. N.
Experimental and numerical study of heat transfer through fin pins arranged in rectangular array	MONDAL PABITRA	Rana S. C. and Bhanja D.(NIT Silcha)r
Active, passive control and dynamic stability of nonlinear flexible System	Mondal Saikat Suvra	Mitra R. K., Banik A. K.
Combined nano-indentation and FEM on elasto-plastic solids	Porwal Deeksha	K. Khan, A. Dey
Coordinated Navigation of Multiple Wheeled Robots	Pradhan Buddhadeb	Hui N. B., Sinha RoyD.
Fuel-cell based Combined Cycle Power Generation System Analysis	Pruthvi Deep A.	Karmakar Sujit
Investigation on Machining Characteristics in Mechanical Micro Milling of Amorphous Materials	Ray Debajyoti	Dr. A. B. Puri & Dr. Nagahanumaiah
Numerical Simulation and Bobd Graph Modelling of Liquid Hot Metal Sloshing Subjected to Excitation Due to Crane Movement	Roy Abhijit	Dr. Anup Kumar Saha
Dynamic Analysis of Flexible Link Manipulator	Sarkhel Prasenjit	Hui N. B., Banerjee N.
Window Refrigeration System Design Using Phase Change Material	Selva Pandian E.	Pramanick, A. K., Ramachandran, P. K.
Experimental study of vibration and stability analysis of rotating shaft using various type of bearings and lubricants.	SHARMA PRAVEEN	Rana S. C. and Barman R. N.
Analysis of Bimodular material laminated beam	Sk Nasir Hasan	K. Khan
Interaction of Rigid bodies and point vortices in Potential flow	Sudipta Debe	Banerjee Nilotpal
Optimum Design of Flow Modifier in Tundish of Slab Caster using CFD	Verma Deepak	Mullick A. N.

Department of Metallurgical and Materials Engineering

Topic	Investigator	Supervisor(s)
Mechanism of microstructural modification and subsequent improvement in properties by semi-solid heat treatment of some non-ferrous alloys.	Bandyopadhyay Biswarup	Bhattacharya A. & Mallik Manab

Topic	Investigator	Supervisor(s)
Development of structural and biocompatible composites through mechanical alloying	Maity Shubhadeep	Bera S. & Show B.K.
Carbon based Metal Sulfide hybrid nanostructures for Energy storage and harvesting: from Synthesis to Applications	Sarkar A.	Bera S. & Chakraborty A. (Physics)
Development of high entropy bulk metallic glass for structural and biomedical applications	Paul S	Bera S & Mandal Durbadal
Structure-property correlation on ZrB2 based ultrahigh temperature ceramic composites.	Paul Tanay Rudra	Mallik Manab & Mondal M. K
Transient liquid phase diffusion bonding of aluminium based metal matrix composites	Roy Pallab	Pal T.K. (Jadavpur University) & Maity J.
Development of high strength ductile steels by cyclic heat treatment involving reconstructive and displacive phase transformations	Mishra Alok	Maity J.
Development of aluminium based metal matrix composite systems with hybrid reinforcements processed through powder metallurgy route and comparative study of their properties	Saha Samata	Ghosh Manojit (BESU, Shibpur) & Maity J.
Design and Development of Highly Efficient Water and Ethylene Based Nanofluids Containing Cu-Ag Alloy Nanoparticles for Advanced Heat Transfer Applications	Das Sujoy	Ghosh M. M.
Design and development of Cu based nanocomposites with W particles reinforcement for use in heat sinks in advanced electronic devices	Bandyopadhyay Krishnan	Ghosh M. M. & Ghosh K. S.
Assessment of Microstructural, Mechanical and Electrochemical Behaviour of Various Dental Amalgams of Various States	Dutta (Chowdhury) Nivedita	Ghosh K. S.
Assessment of structure -high strain rate deformation behaviour of Materials	Acharya Saikat	Ghosh K.S. & Mondal D. K.
Development of high strength wear resistant low carbon steel by cyclic heat treatment	Subhani Amir Raza	Maity J. & Mondal D. K.
Effect of Strain Induced Melt Activation (SIMA) Process on Microstructure and Mechanical Properties of Al-Si alloys Modified by Al-5Ti-1B Grain Refiner	Choudhary Chandan	Mandal D. & Sahoo K.L (CSIR-NML, Jamshedpur)
Composite materials, micro level simulation	Biswas Prasanta	Mondal M.K. & Mandal D.
Corrosion and Nanomaterials	Kar Palas	Ghosh K.S.
Detailed study on tribological behaviour of different Al-Si alloys (Tentative)	Hazra Biplab	Show B.K. & Bera S
Physical Met. and corrosion Engg.	Jaiswal Arvind Kumar	Dr. Maji B. & Dr. Maity J.
An approach for effective joining of dissimilar metals used in super critical boilers	Chatterjee Suvam	Maity J. & Mondal M. K.

Department of Physics

Topic	Investigator	Supervisor(s)
Development and Characterization of Polymer-Multiferroic Nanocomposites for Enhance Magneto Dielectric Behavior	Atta S.	Meikap A.K.
Synthesis, Optical and Nonlinear Optical Properties of Some Silver Metal Nanostructures	Biswas Subrata	Kumbhakar P.
Theoretical study of boson, B meson decays, Higgs boson and new physics beyond the standard model	Biswas Swagata	Sahoo S.

Topic	Investigator	Supervisor(s)
Carbon nanotube and graphene based metal oxide composites for supercapacitor applications	Chakrabarty, N	Chakraborty, AK
Interface and load transfer in carbon nanoparticle reinforced epoxy nanocomposites	Chakraborty, S	Chakraborty, AK, Barbezat, M (EMPA, Switzerland)
Characterisation and Reliability prediction studies of lead free solder joint interface for electronics application	Char, M	Chakraborty, AK, Kar, A (JBNSTS)
Photocatalytic studies using metal oxide and carbon nanostructures for water splitting and purification	Chatterjee, P	Chakraborty, AK
Green Synthesis of Some Nanocrystalline Biomaterials and Study of Gas Sensing Properties of Hydroxyapatite Based Nanocomposites: Their Microstructural and Electrical Characterization	Chatterjee T.	Meikap A.K., Pradhan S.K.
Development and Characterization of Polymer-Nanocomposites for Enhanced Dielectric Properties	Das A. K.	Meikap A.K
Synthesis of InN nanostructure by unique vapour transport method and development of infrared optical sensor	Dhar Dwivedi S.M.M.	Mondal A.
Studies on Optoelectronic Properties of low dimensional Er-doped In2O3 films and its porous structures	Ghosh Anupam	Mondal A.
Graphene/metal oxide nanohybrids for gas sensors	Gupta, S	Chakraborty, AK
Studies on Electrical and Optical Properties of Polymer-Multiferroic Nanocomposites	Halder M.	Meikap A K
Anomalous Electrical Transport Properties of Disordered Solids at low Temperature	Jana R. N.	Meikap A.K.
Studies on Synthesis, Optical properties and Catalytic Activities of Some Metal oxide and Metal sulfide Nanostructures Materials	Karmakar Srikanta	Kumbhakar P.
Nonlinear analysis on geophysical and geochemical data	Khutia Saroj	Chaudhuri H.
Phenomenology of boson, B mesons and Higgs boson	Kumar Manish	Sahoo S.
Optical Properties of Semiconductor Materials and Its Thin Films and Investigation on their Photo-catalytic properties	Kumbhakar Partha	Kumbhakar P.
Synthesis of Chemically Modified Zinc Oxide Nano-Structures for detection of Organic Hazards	Maikap A.	Meikap A K, Mandal B N
Study on geothermal activities by experimental techniques and nonlinear approaches	Maji Chiranjit	Chaudhuri H.
Phenomenology of boson, B mesons, Higgs boson and new physics	Maji Priya	Sahoo S.
Studies of exact solutions and cosmological model based on Einstein-Cartan Theory	Manna Bibekananda	Sahoo S.
Temperature evolution of symmetry energy and the properties of neutron star matter with phenomenological effective interactions	Mohanta S. C.	Sahoo S & Sahoo B
Investigations on Synthesis, Linear and Nonlinear Optical Properties of Some Carbon Nanomaterials and Nanocomposites	Mondal Koushik	Kumbhakar P.
Phenomenological implications of boson in B meson mixing and decays	Nayek Priti	Sahoo S.
A complete study on spin polarized nuclear matter and finite nuclei with finite range simple effective interaction	Pal Mahadeb	Sahoo S., Sahoo B & Chakraborty S.

Topic	Investigator	Supervisor(s)
Carbon nanostructure and metal sulphide composites for supercapacitor and solar cell applications	Sarkar, A	Chakraborty, A K, Bera, S (MME)
Detection of partial discharge in high voltage equipment using Fiber optic sensor	Sarkar Badal	Roy N. K., Kole C. & Kumbhakar P.
Indium-doped TiO2 thin film and its photocatalytic properties	Sarkar M. B.	Mondal A. & Bhattacharya P.
A study on electrical transport properties of some rare earth chromate nanocomposites	Sinha R.	Meikap A.K.,Basu S
Metal oxide/hydroxide and graphene hybrid nanostructures for gas sensing application	Tiwari, P	Chakraborty, AK, Mahapatra, R (ECE)

Annexure–11.4(h)i Ph.D. degree awarded till 2017-18

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Earth and Environmental Studies	Dr. K. Sadhu	K. Adhikari & A. Gangopadhyay
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Humanities & Social Sciences	Dr. R. Chaudhury	Dr. P. P. Sengupta & Dr. S. C. Sikdar
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Humanities & Social Sciences	Dr. A. Bhattacharyya	Dr. P. P. Sengupta
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Humanities & Social Sciences	Dr. A. De	Dr. B. N. Chakrabarti & Dr. G. Bandyopadhyay
Humanities & Social Sciences	Dr. A. Dutta	Dr. P. P. Sengupta
Humanities & Social Sciences	Dr. S. Ghosh	Dr. P. P. Sengupta
Humanities & Social Sciences	Dr. S. Das	Dr. J. Banerjee
Humanities & Social Sciences	Dr. S. Sengupta	Dr. B. N. Chakrabarti
Humanities & Social Sciences	Dr. S. Bhattacharyya	Dr. P. P. Sengupta
Humanities & Social Sciences	Dr. T. Chakrabarty	Dr. J. Banerjee
Humanities & Social Sciences	Dr. S. Guha Roy	Dr. J. Banerjee
Humanities & Social Sciences	Dr. D.Dey	Dr. P. P. Sengupta
Humanities & Social Sciences	Dr. A. Mukherjee	Dr. A. Modak
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Humanities & Social Sciences	Dr. D. P. Misra	Dr. A. Modak
Humanities & Social Sciences	Dr. S. Pyne	Dr. P. P. Sengupta & Dr. A. Modak
Humanities & Social Sciences	Dr. A. Mandal	Dr. A. Modak
Humanities & Social Sciences	Dr. A. Bhunia Chakraborty	Dr. A. Modak
Humanities & Social Sciences	Dr. P Gupta	Dr S. K. Rai
Humanities & Social Sciences	Dr. S Banerjee	Dr S. K. Rai
Humanities & Social Sciences	Dr. S. Agasti	Dr. P. P. Sengupta & Dr. P. Chaudhury
Humanities & Social Sciences	Dr. A. Banerjee	Dr. P. P. Sengupta
Humanities & Social Sciences	Dr. J. Chakraborty	Dr. P. P. Sengupta
Metallurgical & Materials Engineering	Dr. A. C. Ganguli	Dr. S. C. Dasgupta, Dr. A. K. Chakraborty
Metallurgical & Materials Engineering	Dr. S. Banerjee	Dr. D. Bhaduri
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Mechanical Engineering	Dr. Balamurugan Gopla	Dr. S. Ghosh, Dr. B.N Mondal. (CMERI)
Mechanical Engineering	Dr. Chandan Chattoraj	Dr. M. C. Majumder
Mechanical Engineering	Dr. A. G. Mathew	Dr. M. C. Majumder, Dr. K. P. Ramachandran (CCE, Oman)
Mechanical Engineering	Dr. G. K. Vijayaraghvan	Dr. Majumder M.C, Dr. K. P. Ramachandran (CCE, Oman)
Mechanical Engineering	Dr. S. Vishnupriyan	Dr. K. P. Ramachandran (CCE, Oman), Dr. M. C. Majumder
Mechanical Engineering	Dr. Debroy Pradip	Dr. S.Ghosh
Mechanical Engineering	Dr. Maity Atanu	Dr. S.Ghosh Dr. S. Majumder (CMERI)
Mechanical Engineering	Dr. Murali R. V.	Dr. A. B. Puri & Dr. Khalid
Mechanical Engineering	Dr. Gangopadhyay S.	Dr. M. C. Majumder & Dr. N. R. De
Mechanical Engineering	Dr. Ray D. N.	Dr. Mukherjee S. & Dr. S. Mazumder
Mechanical Engineering	Dr. B. Bhattacharya	Dr. N. Banerjee & Dr. H. Sarkar (WBPCB)
Mechanical Engineering	R. V. Murali (2012)	Dr. A. B. Puri
Mechanical Engineering	Debashis Nandi (2015)	Dr. A. B. Puri and Prof. I. Basak
Mechanical Engineering	Mithilesh Dikhshit (2016)	Dr. A. B. Puri and Dr. Atanu Maity
Mechanical Engineering	Dr. Arup Kumar Biswas	Dr. A N Mullick, Dr. P K Sinha & Dr. B Majumdar
Mechanical Engineering	Dr. Debajyoti Banerji	Dr. I. Basak & Dr. J. Bose (CMERI)
Mechanical Engineering	Dr. Avik Chatterjee	Dr. I. Basak & Dr. S. Majumder (CMERI)
Mechanical Engineering	Dr. Tapas Gangopadhayay	Dr. I. Basak & Dr. D.K. Pratihar (IITKgp)
Mechanical Engineering	Bibhiti Bhusan Naya	Dr. A N Mullick & Dr. D Chatterjee
Mechanical Engineering	Kanchan Chatterjee	Dr. N. B. Hui & Dr. D. Chatterjee (CMERI)
Mechanical Engineering	Jagannath De	Dr.N. Banerjee & Dr.A. K. saha
Mechanical Engineering	Atul Vasant Karanjkar	Dr. N. Banerjee
Mechanical Engineering	Swapan Barman	Dr. A. B. Puri & Nagahanumaiah
Mechanical Engineering	Bikramjit Podder	Dr. N. B. Hui & Dr. K. Ramesh Kumar (DRDL Hyderabad)
Mechanical Engineering	Dr Robin Kr Biswas	Dr Manik Chandra Majumder, Dr S K Basu
Mechanical Engineering	Swapan Kumar Aditya	Dr Manik Chandra Majumder, N. R De
Mechanical Engineering	Dr Arka Sen	Dr Manik Ch Majumder, Dr Sumit Mukhopadhyay, Dr Robin Kr Biswas
Mechanical Engineering	Dr A K chattopadhyay	Dr Manik Ch Majumder,,S K Basu
Mechanical Engineering	Dr Lokesh M	Dr Manik Ch Majumder , Dr K P
Mechanical Engineering	Dr Sureh Babu	Dr Manik Ch Majumder Dr A Ram Prasad
Mechanical Engineering	Dr S Sundaravali	Dr Manik Ch Majumder
Mechanical Engineering	Dr Sumit Mukhopadhyay	Dr Manik Ch Majumder, Dr S N Sengupta
Physics	S. Chakraborty	Kumbhakar P
Physics & Elec. Engg.	A. Chatterjee	Roy N K and Kumbhakar P
Physics	N. Choudhury	Sinha MS
Physics	A. K. Das	Sinha MS
Physics	P. Ghosh	Kumbhakar P and Sen B (VTTC, Midnapore)
Physics	B. C. Nandi	Sinha M S

Name of the Department	Investigator	Supervisor(s)
Physics	P. S. Basu	Sinha MS
Physics	G. S. Roy	Sinha MS
Physics	(Mrs.) R. Sen	Chatterjee SK
Physics	D. Biswas	Meikap AK & Chattopadhyay SK
Physics	S. Sahoo	Maharana L & Meikap AK
Physics	A. Sarkar	Meikap AK & Chatterjee SK
Physics & Elec. Engg	S. Karmakar	Roy NK and Kumbhakar P
Physics	J. Ghosh	Chatterjee SK
Physics	P. Kr. Singha	Mitra AK
Physics	A Mukherjee	Basu S & Pal M
Physics	M. Chattopadhyay	Kumbhakar P
Physics	S. Ghatak	Meikap AK
Physics	K. Gupta	Meikap AK &Jana PC (V.U.)
Physics	R. Sarkar	Kumbhakar P & Mitra AK
Physics	K. Talukdar	Mitra AK
Physics	G. Chakraborty	Meikap AK
Physics	P. Ghosh	Meikap AK
Physics	S.M. Hossain	Basu S & Pal M
Physics	R.Paul	Mitra AK
Physics	R.K. Agarwalla	Chakraborty AK & Mitra AK
Physics	S. Chakraborty	Sahoo S & Sahoo B (TDB College, Ranigang)
Physics	C.K. Das	Sahoo S & Maharana L
Physics	H.S. Desarkar	Kumbhakar P & Mitra AK
Physics	A. Ganguly	Mondal A, Yadav RK
Physics	Dr. (Mrs.) K. Usha	Kumbhakar P and Mondal B(CSIR-CMERI Durgapur)
Physics	A. Kole	Kumbhakar P
Physics	S.K.Sahoo	Sahoo S, Sahoo BK (NIT Raipur)
Physics	K. Mukherjee	Meikap AK, Kumbhakar D
Physics	S. Sinha	Meikap AK, Chatterjee SK
Physics and ECE	Jay Chandra Dhar	Mondal A
Physics and ECE	Naorem Khelchand Singh	Mondal A
Physics and ECE	Shubhro	Mondal A
Physics and ECE	B. Chowdhury	Mondal A & Saha A
Physics and ECE	C. Ngangbam	Mondal A. & Dev S.
Physics	V. Meriga	Chakraborty AK
Physics	S. Saha	Meikap AK & Pradhan SK
Physics	S. Choudhury	Meikap AK & Mandal M K
Physics	P. S. Mukherjee	Meikap AK
Physics	M. Goswami	Meikap AK & Ghosh R
Physics	D. Banerjee	Sahoo S

Annexure - 11.4(h)ii

Department of Biotechnology

- Anti-microbials from plant/food sources.
- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Biodegradation of pesticides
- Bioenergy
- Biofuels
- Biological pigments
- Bionanotechnology
- Bioprospecting microbial diversity for biomolecules
- Bioremediation of polyaromatic hydrocarbons, pesticides and textile dye

- Biosurfactant production and application
- Cancer Biology
- Developmental Biology and Signal Transduction
- Drug delivery system
- Encapsulation of bioactive compounds
- Environmental Microbiology and Biotechnology
- Inflammation and Cell Signalling
- Microbial fermentation
- Microbial genomics and metagenomics
- Microbiology of arsenic contaminated groundwater
- Microbiology of deep subsurface biosphere
- Molecular mechanism of inflammation
- Molecular Plant Pathology
- Nanoparticles for heavy metal remediation
- Parasite immunology and cell signalling
- Parasite metagenomics
- Pesticides and other chemicals from plant sources
- Petroleum microbiology
- Plant Biotechnology
- Screening of Novel Enzymes

Department of Chemical Engineering

- Acetic acid production in membrane-integrated bioreactor system
- Arsenic removal by membrane technology
- Biochemical Utilisation of Petroleum Wax (Biochemical Conversion / SCP Production)
- Biodiesel Synthesis from Microalgae Oil and Neem Oil
- Biogas Production by Co-Digestion of Sewage Sludge, Waste paper and Waste Grown Algae
- Biological treatment of coalmine waste water
- Boiling flow instabilities; Bubble dynamics and heat transfer; Optimization and control
- Bubbling Fluidized Bed Combustion
- Catalytic membrane reactor
- CFD modelling of Pyrolysis, Combustion and Gasification of Coal and Biomass
- Characterisation of nanomembranes
- Chlorofluorocarbons Replacement
- Circulating Fluidized Bed Combustion & Gasification
- Clean Technology development for chemical processes
- Clean Technology for Chemical Processes
- Clean water production by membrane technology
- Comparative Studies on Hydrodynamic and Gas-Particle Heat Transfer in Uniform and Converging Riser
- Computer Aided Analysis of Biodiesel Synthesis Using Lipase – Immobilized Inverse Fluidized Nanosilica Particles
- Co-pyrolysis, Combustion and Gasification
- Defluoridation of contaminated groundwater by bioremediation
- Design and Analysis of Circulating Fluidised Bed Bioreactors employing
- Design and Analysis of Fluidized / Semifluidized Bed Bioreactors for Biodiesel Synthesis
- Design and Analysis of Semi Fluidized Bed Bioreactors
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal-
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal- Oil Suspension)
- Development of Contour Model of Settling of Air-borne Dust from Cement Plant and CPower Plant Chimneys
- Diesel Particulate Filter-A CFD Modelling
- Dry beneficiation of coal
- Dynamic modelling of integrated coke-oven wastewater treatment plant
- Effect of Waste Plastics in Physical Structure of Municipal Solid Wastes stored in Landfills and Anaerobic Digestion.
- Fluidized Bed Combustion
- Gasification of coal and biomass
- Gas-Particle Mass Transfer in a Short Converging Riser
- Heterogeneous catalysis for the for the production of biodiesel

- Immobilised Enzyme Nanoparticles
- Inverse fluidization
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore
- Methane enrichment by TSA technology
- Methanogenesis of low grade Indian coal
- Modeling transport through nanomembranes
- Modelling & Simulation of Integrated physico-chemical and biological treatment of wastewater
- Modelling & Simulation of lactic acid production in membrane-integrated hybrid system
- Modelling and simulation of PSA-VSA integrated system
- Modelling nanofiltration of arsenic removal by membrane-integrated hybrid system
- Modelling of Diesel Particulate Filter (DPF)
- Modelling of Pyrolysis, Combustion and Gasification of Coal and Biomass
- Multiphase flow
- Nanofiltration
- Noncatalytic Gas-Solid Reactions
- Novel Techno-economic Evaluation for Conversion &Re-refining of Used Lubricating Oils to Base Oil
- Oil Suspension
- Optimization and control
- Optimization of Surface Modification of Natural Adsorbents for its Application towards Remediation of Watercourse Contaminated with Crude Oil and Weathered Oil by Inverse Fluidized Bed
- Performance Characteristics of Inverse Fluidized Bed Bioreactors with Special Reference to Bioplastic Synthesis
- Performance Analysis of Circulating Fluidised Bed Bioreactors employing Immobilised Enzyme Nanoparticles
- Pneumatic Drying of Wet-Particle in an uniform and Converging Riser Duct
- Pressure Swing Adsorption Mechanism for Separation
- Process Intensification towards sustainable technology
- Production of Biodegradable Plastics (PLLA) from Cheese Whey
- Production of plastic to petrol
- Pyrolysis of weeds
- Realistic nanoseparation modelling through on-line streaming potential measurement
- Removal of Industrial Pollutant in an Inverted Fluidized Bed using Palm-seed Activated Charcoal
- Removal of phenol using shale
- Replacement of Chlorofluorocarbons from Conventional refrigeration systems
- Slurry Flow Modelling
- Studies on gas separation by nano-composite membrane
- Studies on Hydrodynamics and Mass Transfer in a Converging Inverted Fluidized Bed.
- Studies on Immobilised Cell / Enzyme Nanoparticles
- Studies on Synthesis of Lactic Acid from Agricultural / Food Wastes in Down Flow Stationary Fixed Film (DSFF) Bioreactors
- Surface modification of activated carbon by inert gas activating agent
- Synthesis of Lactic Acid from Cheese Whey and Molasses in Semifluidised Bed Biofilm Reactors
- Treatment of Industrial Wastewater
- Two phase flow modelling in pipeline and micro channel

Department of Chemistry

- Application of Bio-inspired Nanoparticles in Multicomponent organic transformations
- Application of Fenton's, Lime & Biological Treatment & their Comparative Assessment for the
- Application of Photo-Fenton's Oxidation & Biological Oxidation for Degradation of Selected
- Chemistry of Transition metal-Schiff base ligand complexes
- Corrosion chemistry: Highly efficient Green and synthetic corrosion inhibitor
- Corrosion inhibition study using inhibitors
- Development of a suitable treatment scheme of common effluent generating from iron & steel, Thermal Power Plants and Chemical industries located in Durgapur industrial area.

- Development of natural fibre reinforced polyester composite material.
- Evaluation of Arsenic distribution through food chain contamination.
- Fluorescence Spectroscopy, Development of Fluorescence sensor
- Isolation, Purification, Characterization and Chemical Modification of Polysaccharide
- Kinetics & mechanism of bio-inorganic reactions for modification on Pt(II) and Pd(II) based anticancer agents: Their Bioactivity, Speciation and DFT study
- Kinetics and mechanism of inorganic and bioorganic reactions
- Lipid and fatty acids of different fish species
- Lipid Chemistry in the field of biodiesel production
- Lipids analysis from different biomaterials
- Organic synthesis of small molecules
- Organometallic chemistry
- Pollutants Present in Petro-Chemical, Pharmaceutical & Coke-Oven Wastewater.
- Polysaccharide chemistry and biochemistry
- Protein structure and dynamics
- Quality and quantity of different lipids in natural food resources
- Spatial and Temporal Variations of Ambient Air Quality
- Surface Chemistry
- Synthesis and application of nanomaterials for the reduction of environmental contaminants
- Synthesis and Characterisation of Cu- & Fe complexes
- Treatment of Textile and Dye Wastewater

Department of Civil Engineering

- Analysis and design of offshore pipelines
- Bioremediation and Nanotechnology
- Contaminant migration through soil
- Development of Decision Support System for water resource management and
- Development of Smart Concrete Structures.
- Engineering Limnology
- Experimental mechanics of concrete structures, Biodeposition on concrete
- Experimental set up for formation of river bed form and erosion around an island

  flood mitigation of river Kosi system lying in India and Nepal
- Impact of Climate change on water resources in a natural stream
- Mix design of pumpable concrete
- Removal of heavy toxic metal from ground water using nanotechnology.
- Rural water management
- Setting up of a center of low-cost housing facilities.
- Solid waste management
- Structural reliability
- Wind energy Studies
- Pipe-soil interaction
- Reliability in Geotechnical Engineering
- Concrete Technologies
- Structural Control
- Soil-Structure Interaction

Department of Computer Science and Engineering

- Agent-based modelling of real life problems
- Biometrics
- Computer Vision
- Deep Learning
- Digital Forensics
- Evolutionary Computing
- Fuzzy Decision Making
- Hardware Security and applications
- Human Activity Recognition
- Image Processing
- Information Security
- Machine Learning
- Medical Imaging
- Multi-Objective Optimization

- Multiprocessor and Multi-core Architecture
- Optimization of Multi-agent-systems
- Pattern Classification
- Semantic web technology
- Social network analysis
- Theory and applications of Cellular Automata
- VLSI Design and Testing
- Wireless networks

Department of Earth and Environmental Study

- Air pollution control, modelling and remediation strategies
- Arsenic remediation techniques
- Biological and pharmaceutical waste remediation strategies
- Contaminant transport through porous media
- Environmental impact on coal mining areas
- Groundwater availability and its management
- Groundwater contaminant transport and its removal
- Groundwater Management technique
- Heavy metal removal from wastewater
- Impact of industrial pollution on the environment
- Removal of Fluoride from groundwater
- Use of remote sensing in detection of subtle and obscure geological structure
- Water and Wastewater treatment technology
- Water purification systems

Department of Electrical Engineering

- AGC with renewable energy systems, FACTS and PSS in restructured power systems
- Biomedical Instrumentation
- Control and Trajectory Tracking of Multi-link Robot arm manipulator
- Design & real-time Implementation of Periodic Control for Non-minimum Phase time Delayed systems
- ELD, Evolutionary optimization techniques
- Electrical Power Systems State Estimation, Detection and Identification of bad data etc.
- Electromagnetic Levitation
- FACTS
- Feature Extraction from Biological Signals
- ICT enabled High Voltage Test system
- Investigation of Haematological disorders from blood cells using soft computing techniques
- Modelling of breakdown voltages using soft computing techniques
- On-line Monitoring of Partial Discharge in Transformer Oil
- Optimal Power Flow Studies
- Optimization in DSP Filter Designs
- Power System Stabilizer
- Price Forecasting
- Side Lobe Reduction in Antenna Arrays
- Small Signal Stability Analysis in Power Systems
- Synthesis and Characterization of Lanthanum Doped Barium Titanate Ziirconate
- Unification of field forces and to explore some of the unanswered phenomena in nature and science

Department of Electronics and Communication Engineering

- Antenna and Microwave Circuit components
- Antenna Array Synthesis using Evolutionary Algorithms
- Array antenna failure detection and Correction
- Cognitive Radio Femtocell Networks
- Cognitive Radio Femtocell Networks
- Cognitive Radio Networks
- Cognitive Radio Networks
- Cooperative Communication
- Cooperative Communication
- D2D Communication
- D2D Communication
- Digital Signal processing

- Energy Harvesting
- Fabrication and Characterization of On-Chip Antenna
- Free space optics
- GaN Power Electronics
- Gene Silencing
- Handoff issues in 5G
- Handoff issues in 5G
- LDMOS Devices
- Millimetre wave channel modelling
- Nanoscale Semiconductor Devices
- Resistive Memory Devices
- Wireless Communication
- Wireless Communication

Department of Humanities and Social Sciences

- Applied Econometrics
- Applied Linguistics
- Cultural Studies
- Digital Humanities
- Development Economics
- Entrepreneurship Development
- Globalization and Sustainable Development
- International Economics
- Literature and Cinema
- Literature and Religion
- Managerial Economics
- Translation Studies

Department of Management Studies

- Application of DEA for evaluating performance efficiency in Banking Sector,
- Application of DEA in Tourism/Destination Marketing,
- Application of optimization techniques in Business,
- Application of statistical software's in Marketing & Human resource Management
- Banking sector
- Behavioural Finance
- Business Environment
- Capital Market,
- Causes and Impact of Fraud in Banking Sectors
- Corporate Finance
- Corporate Social Responsibility
- Efficiency Measurement with the Help of Data Envelopment Analysis
- Employee Engagement
- Employee Green Behaviour
- Financial market data analysis using soft computing techniques
- Impact of Corporate Social Responsibility
- Insurance Sector
- Micro-Finance
- Mutual Funds
- Pension sector
- Portfolio optimization
- Product & Brand Management
- Psychological Capital
- Public policy on Financial Services
- Sales & Distribution Management
- Service Marketing
- Stock Market Analysis

Department of Mechanical Engineering

- Analytical and semi-analytical solution techniques of problems of thermodynamics, heat transfer and fluid mechanics
- Application of thermodynamic principle in heat transfer and fluid mechanics problems
- ECDM and Wire-cut ECDM
- Fundamental Principle of Thermodynamics viz., Constructal Law, Law of Motive Force.
- Inventory Management
- Mobile Robot Navigation
- Thermodynamic analysis of Advanced Power Generation system with CO2 capture

Department of Metallurgical & Materials Engineering

- Corrosion fatigue/environmental assisted cracking of aluminium alloys and stainless steels and their weldments.
- Design and development of nanocomposites for advanced electronic devices
- Development of Al-based alloys for high temperature application
- Development of cast microalloyed steel.
- Development of new metallic alloys for bio-implant application.
- Development of TiC reinforced aluminium based metal matrix composite with and without a second reinforcement.
- Effect of cyclic heat treatment on microstructure and properties of various grades of plain carbon steels.
- High temperature corrosion behaviour of steel in Industrial environment
- Semi-solid heat treatment of Al alloys. Mechanism of microstructural modification and subsequent improvement in properties by semi-solid heat treatment of some non-ferrous alloys.
- Structure-property correlation on ZrB2 based ultra high temperature ceramic composite
- Synthesis and characterization of metallic glass matrix composite
- Thermo-mechanical processing of micro alloyed steels

Department of Mathematics

- Bio-mathematics
- Coding Theory
- Computational Graph Theory
- Cryptography
- Finite Field Theory
- Fixed Point Theory
- Fluid Dynamics
- Functional Analysis
- Fuzzy Mathematics
- Geophysics
- Hypergraphs
- Information Theory
- Integration Theory
- Mathematical Modelling
- Nonlinear Dynamics
- Nonlinear Waves
- Operations Research
- Optimization of dynamics system
- Plasma Physics
- Population Dynamics
- Portfolio Optimization
- Soft Computing
- Statistical Analysis
- Supply-chain Management
- Theoretical & Computational Fluid Dynamics
- Topology
- Uncertainty Theory

Department of Physics

- Characterization of optical detector and biosensor
- Development and characterization of nanomaterials using laser
- Development of a network of MPGOs (Multi-parametric Geophysical Observatories): Geochemical precursors, Electromagnetic (EM) precursors, seismo-geochemical & seismo-geophysical modeling of earthquake precursors.
- Electrokinetic treatment of soil.
- Fabrication of Li-ion batteries using graphene based anode materials
- Fabrication of nanowire and optical detector
- Glancing angle and oblique angle deposition technique for nanostructure fabrication
- Graphene and high energy physics
- Graphene based low cost solar cells
- Graphene based low-cost highly selective gas sensors
- Graphene-metal oxide nanohybrids for supercapacitors

- Integrated and sustainable technology solutions for organic wastewater treatment
- Integrated and sustainable technology solutions for organic wastewater treatment
- Investigation on Geochemical and Geophysical Aspect for Geothermal Exploration and Helium Exploration.
- Investigation on Multi-parametric and Multi-station based Geochemical Precursors for Earthquakes.
- Large scale Extraction of helium from petroleum deposits and hydrothermal gas and its purification
- Low temperature characterization of nano-composites, conducting polymers and disordered alloys
- Mathematical modelling and nonlinear analysis of geochemical & geophysical data and medical data (EEG signals)
- Metal extraction from flash
- Non-linear optical frequency conversion techniques for characterization of non-linear optical materials
- Preparation and characterization of advanced polymer composites with carbon nanostructures
- Simulation studies of Carbon Nanotubes and graphene based devices
- Studies on phenomenology of - Boson, B-meson decays and new physics.
- Synchronous communication system, studies on multiphase oscillator, nonlinear dynamics
- Synthesis and Characterization and Study of Optical and Nonlinear Optical Properties of Semiconducting and Metallic Nanoparticles and Quantum Dots
- Synthesis and characterization of nanostructured materials
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites
- Synthesis of high quality graphene by Chemical vapour deposition method
- Synthesis of Metal Nanoparticles by Laser Ablation and Study of Optical Properties
- Theoretical study of Higgs boson, massive neutrinos, black holes, dark matter and dark energy
- Theoretical study of Higgs boson, massive neutrinos, black holes, gravitational waves, dark matter and dark energy
- Theoretical study of electronic, mechanical and thermal properties of graphene.
- Theoretical study of electronic, mechanical and thermal properties of grapheme.

Annexure–11.4(i) Testing & Consultancy services rendered during 2017-18

Department of Civil Engineering

Department	Title of the Project	Amount (Total)
Civil Engineering	Proof-checking and vetting of erection scheme of two steel girder bridges over river Yamuna 76.2m × 10 spans and over an Irrigational Canal at Parichha, Single span of 61.0m	1.90 lakhs
Civil Engineering	Vetting of structural drawing and design for (G+5) Storied Residential Apartment Building for M/s Bengal Aerotropolis Ltd. Andal Airport	0.65 lakhs
Civil Engineering	Approval of weighbridge structure (50MT Capacity)	0.25 lakhs
Civil Engineering	Proof-checking /vetting of erection scheme of single steel girder bridges over river Yamuna 76.2m × 1 spans (Anchor span)	0.50 lakhs
Civil Engineering	Vetting of design & drawing for Construction of bridge #438 @ Sambalpur-Titlagarh (14 x 30.5M : trestle Anchor span & cantilever method)	1.00 lakhs
Civil Engineering	Vetting & approval of GA drawings and supporting calculations for proposed Civil and Structural building for 10 ton ESR plant at MSF Ishapur with additional works	2.70 lakhs
Civil Engineering	Checking of quality of works in connection with construction of Check Dams (Five projects) within the jurisdiction of Panchet Division	2.44 lakhs

Department	Title of the Project	Amount (Total)
Civil Engineering	Checking of quality of works in connection with construction of Check Dams/reservoirs (Two projects) within the jurisdiction of Bankura (South) Division	3.10 lakhs

Department of Management

Department	Title of the Project	Amount (Total)
Management Studies	Impact Assessment study of CSR activities of DSP	Rs. 2.55 lakhs

11.5(a) Number of Faculty in position

Name of Department	Professor	Associate Prof	Assistant Professor	Asstt. Prof. (on Contract) In position	Trainee Teacher
	In position	In-position	In position		In position
Biotechnology	02	04	04	01	-
Chemical Engineering	05	02	03	01	-
Chemistry	01	05	03	01	-
Civil Engineering	07	04	06	-	01
Computer Science & Engineering	01	07	20	01	-
Computer Centre	00	01	01	-	-
Electrical Engineering	05	04	05	01	01
Electronics & Communication Engineering	05	03	06	-	-
Earth & Environmental Science	01	01	Nil	01	-
Humanities & Social Science	01	00	03	-	-
Management Studies	01	02	05	01	-
Mathematics	01	02	06	-	-
Mechanical Engineering	06	08	10	-	02
Metallurgical & Materials Engineering	01	02	06	01	-
Physics	02	01	05	-	-
T.P.S.W	00	-	-	-	-
Total	**39**	**46**	**83**	**08**	**04**

Annexure-11.5(b) List of Faculty

Department of Biotechnology

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Aikat Kaustav, Ph.D.	Associate Professor	Microbial Biotechnology and Biochemical Engineering, Bioenergy, Environmental Biotechnology	kaustav.aikat@bt.nitdgp.ac.in aikatk@yahoo.co.in
Bhattacharjee Ashish, Ph.D.	Ramalingaswami Fellow, Govt. of India (Scientist D)	Cell Biology, Molecular mechanism of Inflammation and Cancer, Cell Signalling	ashish.bhattacharjee@bt.nitdgp.ac.in ashish15lo@yahoo.com
Chattopadhyay Sudip, Ph.D.	Professor	Developmental Biology and signal transduction	sudip.chattopadhyay@bt.nitdgp.ac.in sudipchatto@yahoo.com
Chaudhuri Surabhi, Ph.D.	Associate Professor	Biochemical Engineering, Food Biotechnology	surabhi.chaudhuri@bt.nitdgp.ac.in surabhi_c@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Dasgupta Mandal Dalia, Ph.D	Associate Professor	Molecular toxicology, Bioremediation, Drug delivery system	dalia.dasgupta@bt.nitdgp.ac.in dasguptadalia@yahoo.com
Dey Apurba, Ph.D.	Professor	Biochemical Engineering, Environmental Biotechnology	apurbadey1960@gmail.com apurba.dey@bt.nitdgp.ac.in
Dutta Debjani, Ph.D.	Assistant Professor	Food Biotechnology, Biochemistry, Microbial Biotechnology	debjani.dutta@bt.nitdgp.ac.in debs_2000in@yahoo.com
Ghosh Monidipa, Ph.D.	Assistant Professor	Development and optimization of biosensor in disease detection; Parasite immunogenetics	gmonidipa@yahoo.com
Kazy Sufia Khannam, Ph.D.	Assistant Professor	Environmental Microbiology, Bioremediation, Microbial Genomics and Metagenomics	sufia.kazy@bt.nitdgp.ac.in sufia_kazy@yahoo.com
Mahata Nibedita,Ph.D.	Assistant Professor	Biochemistry, Cell Biology, and Immunology	nibedita.mahata@gmail.com nibedita.mahata@bt.nitdgp.ac.in
Mukhopadhyay Sudit Sekhar, Ph.D.	Associate Professor	Molecular Biology of Cancer, Human Genetics, Animal Biotechnology	suditmukhopadhy@yahoo.com
Roy Barman Subhankar, Ph.D.	Assistant Professor	Molecular plant – fungus interactions, Plant molecular biology	subhankarroy.barman@bt.nitdgp.ac.in sroybarman@gmail.com

Department of Chemical Engineering

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Das Bimal, PhD	Assistant Professor	Fluidization, Multiphase Flow Adsorption, Environment	bimal.das@che.nitdgp.ac.in bimal_30@yahoo.com
Dutta Susmita, PhD	Associate Professor	Environmental Engineering, Biochemical Reaction Engineering	susmita.dutta@che.nitdgp.ac.in susmita_che@yahoo.com
Ghanta Kartik Chandra, PhD	Professor	Multiphase Flow, Slurry Flow Modelling	kartik.ghanta@che.nitdgp.ac.in kcghanta@yahoo.com kartikghanta@gmail.com
Gupta Parthapratim, PhD	Professor	Mathematical Modelling, Combustion & Gasification of Coal & Biomass	parthapratim.gupta@che.nitdgp.ac.in parthgupta2000@yahoo.com
Halder Gopinath, PhD	Associate Professor	Chemical Engg Thermodynamics, Process Heat Transfer, Environmental Energy	gopinath_haldar@yahoo.co.in gopinathhaldar@gmail.com gopinath.halder@che.nitdgp.ac.in
Mandal Mrinal Kanti, PhD	Assistant Professor	Membrane Seapartion Processes Petroleum Refinery, Mass Transfer Operation, Modelling, Simulation and Optimization of Process Design	mrinalmandal@gmail.com mrinal_ml78@yahoo.co.in
Mandal Tamal, PhD	Professor	Environmental Bio-Engineering, Bio-Reaction Engineering	tamal.mandal@che.nitdgp.ac.in tamal.nitdgp@gmail.com; tamal_mandal@yahoo.com
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Basu Soumen PhD	Assistant Professor	Nanomaterials	soumen.basu@phy.nitdgp.ac.in
Chakraborty Amit, PhD	Associate Professor	Graphene, carbon nanotubes & their composites with polymer, metal, semiconductors for solar photovoltaics, supercapacitors, gas sensors and hydrogen evolution by photocatalysis	amit.chakraborty@phy.nitdgp.ac.in
Kumbhakar Pathik, PhD	Professor	Nanophotonics, Nonlinear Optics, 2D Materials, PD Sensor, Gas Sensor	pathik.kumbhakar@phy.nitdgp.ac.in, p.kumbhakar@gmail.com
Meikap Ajit Kumar, PhD	Professor & Head (April 2017 to 8th April 2018)	Low Temperature Characterisation, Thin-flim Technology, Conducting polymers, Nanocomposites	ajit.meikap@phy.nitdgp.ac.in ak_meikap@yahoo.com
Mondal Mrinal Kanti, Ph. D.	Assistant Professor	Electronics	mrinalkanti.mandal@phy.nitdgp.ac.in nitmkm@yahoo.co.in
Sahoo Sukadev, Ph. D.	Assistant Professor	Theoretical High Energy Physics, boson phenomenology, B meson decays	sukadev.sahoo@phy.nitdgp.ac.in, sukadevsahoo@yahoo.com
Chaudhuri Hirok, Ph.D	Assistant Professor	Investigation on Geochemical and Geophysical Aspect for Geothermal Exploration and Helium Exploration. Nonlinear analysis of geochemical & geophysical data, earthquake precursory data and medical data (EEG signals, ECG signals) Large scale Extraction of helium from petroleum deposits and hydrothermal gas and its purification Development of a network of MPGOs (Multi-parametric Geophysical Observatories): Geochemical precursors, Electromagnetic (EM) precursors, seismo-geochemical & seismo-geophysical modelling of earthquake precursors. Integrated and sustainable technology solutions for organic wastewater treatment. Metal extraction from flash. Electrokinetic treatment of soil.	hirok.chaudhuri@phy.nitdgp.ac.in
Mondal Aniruddha, Ph.D	Assistant Professor	Fabrication of 1d metal oxide semiconductor nanostructure by using glancing angle deposition technique and fabrication of UV-Vis detector, plasmonic detector, hybrid semiconductor detectors.	aniruddha.mondal@phy.nitdgp.ac.in, aniruddhamo@gmail.com

Department of Training Placement and Students' Welfare

Sl. No.	Name of the post	Name
01	Professor	Nil

Annexure – 11.5(c) New appointment of faculty during the year

Sl. No.	Name	Department	Designation	Date of Joining
	Nil			

Annexure – 11.5(d) Retirement, Resignation and Voluntary Retirement of faculty during the year

Sl. No.	Name	Department	Designation	Date of retirement/ Resignation
1	Mitra S.K	Met. & Mat. Engg	Professor	31.03.2017
2	Sarkar J.P	Chemical Engg.	Professor	31.08.2017
3	Dutta S.K	Electrical Engg.	Professor	31.10.2017
4	Bhattacharya Ashis	Met. & Mat. Engg.	Assot. Prof.	31.07.2017
5	Ray R. N	Met. & Mat. Engg.	Assot. Prof.	30.11.2017

Annexure-11.6(a) List of Officers

Registrar	Vacant
Deputy Registrar	Chattopadhyay Aloke Kr. Kumar Asit Mukherjee Uday Chandra Ray Dhrubajyoti
Assistant. Registrar	Bhattacharya Sayan Das Ashutosh MondalDebasish Sardar Amiya Kumar
Executive Engineer	Haldar Tanmay
Physical Training Instructor	Mukherjee Hillol
Library	
Librarian	Vacant
Deputy Librarian	Vacant
Assistant Librarian	Kumar Jitendra
Workshop	
Superintendent	Vacant
Registrar's Secretariat	
Technical Officer	R.N. Krishnaraj (on EOL) Saha Santosh Kr. (looking after Technical Cell)
Medical Unit-cum-Hospital	
Senior Medical Officer	Sarkar Banhi Kumar (Dr.)
Medical Officer(s)	Patra Sucharita (Dr.) Pravabati G.(Dr.)
Estate Section	
Security Officer	Bhagat Ajit Kumar

Anexure-11.6(b) In position posts of officers and number in position

	Sanctioned	In position
Registrar	1	Vacant
Dy. Registrar	4	4
Asstt. Registrar	7	4
Dy. Librarian	1	vacant
Assistant Librarian	1	1
Principal SAS Officer	1	vacant
Sr. SAS Officer	1	vacant
SAS Officer	1	vacant
Principal Scientific/Technical Officer	1	vacant
Sr. Scientific/Technical Officer	1	vacant
Scientific/Technical Officer	3	2
Superintendent Engineer	1	vacant
Executive Engineer (Elect/Civil)	2	1
Senior Medical Officer	1	1
Medical Officer	2	2
Security Officer	1	1
Physical Training Institute	-	1
	-	-
	-	-
	29	17

Annexure-11.6(c) Number of technical & administrative staff members

1.	Tech. Asstt.	04	
2.	Sr. Tech. Asstt.	29	
3.	Tech. Asstt. (SG-II)	05	
4.	Tech. Asstt. (SG-I)	05	
5.	Asstt. Engineer	01	
6.	Sr. Library Infor. Asstt.	01	
7.	Sr. Workshop Asstt.	01	
8.	Sr. Technician	03	
9.	Laboratory Asstt.	01	
10.	Laboratory(SG-II)	01	
11.	Pharmacist	01	
12.	Sr. Superintendent	09	
13.	Staff Nurse	01	
14.	Assistant (SG-I)	05	
15.	Assistant (SG-II)	13	
16.	Sr. Assistant	05	
17.	Junior Assistant	04	
18.	Driver	01	
19.	Cook	02	
20.	Attendant	01	
21.	Sr. Attendant	21	
22.	Attendant (SG-I)	11	
23.	Attendant (SG-II)	03	

Annexure-11.6(d) New Recruitment of Staff

Sl. No.	Name	Department	Designation	Date of Joining
	Nil			

Annexure-11.6(e) Retirement, Resignation, Death and Voluntary Retirement of Staff during the year

Sl. No	Name	Department/Section	Designation	Date of Retirement
1	KunduDibakar	Estate Section	Watchman	31.05.2017
2	Sinha S.K.	Cont. Cell	Admin(Officer)	30.09.2017
3	Mukherjee Goutam	Chief Warden	Asstt. (SG-II)	31.01.2018
4	Ghosh Kasinath	Workshop	Tech. Asstt.	28.02.2018
5	Dome Mihilal	Maintenance	Attendant	28.02.2018
6	BagdiBijola	Physics	Attendant	31.03.2018

Annexure – 11.7(a) Faculty deputed on QIP (doctoral programme) during this period

None

Annexure–11.7(b) Seminars, summer/winter schools, short term courses attended by faculty members during 2017-18

Department of Biotechnology

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1.	Bhattacharjee, A.	International Congress of Cell Biology	CSIR-CCMB	27-31 January, 2018

Department of Chemical Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1.	Das, B.	Faculty Development Program on Pedagogy	NIT, Durgapur	24-25th March, 2017

Department of Chemistry

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Adhikari Utpal	7th International Science Congress (ISC-2017)	International Science Community Association & College of Science and Technology Rinchending, Phuentsholing, Chukkha, Bhutan	08-09 December, 2017
2	Chakrabarty J.	Third International Conference on Mass Spectrometry (ICMS 2017)	IUIC & School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, India.	11-14 December, 2017
3	Moi, S.C.	7th. International Congress on Energy and Environment Engineering and Management, Canary island, Spain	Science Knowledge Conferences, Canary island, Spain	17-19th July, 2017
4	Saha R N	7th International Congress of Energy and Environment Engineering and Management (CIIEM7)	Science Knowledge Conferences Canary Islands, Spain	17-19 July 2017

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
5	Sukul, D.	7th. International Congress on Energy and Environment Engineering and Management, Canary island, Spain	Science Knowledge Conferences, Canary island, Spain	17-19th July, 2017

Department of Civil Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Das Diptesh	Matlab and Simulink for technical computing	NIT Durgapur	January 15-19 2018
2	Das Diptesh	Soft computing & optimisation Techniques in Engineering & Engineering Science	NIT Durgapur	October 10-16 2018
3	Samanta Amiya Kumar	Soft computing & optimisation Techniques in Engineering & Engineering Science	NIT Durgapur	October 10-16 2018

Department of Computer Science and Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1.	Bhattacharjee, S	TEQIP II sponsored Workshop on Soft Computing and Optimization Techniques in Engineering and Engineering Science	Department of Electrical Engineering, NIT Durgapur	October 10-16, 2017
2.	Das, D.	FDP: UGC Sponsored National Workshop: A Trend Towards Machine Learning	Deen Dayal Upadhyaya College, University of Delhi	26th December, 2017-1st January 2018
3.	Dutta A	ICAART 2018 10th International Conference on Agents and Artificial Intelligence	ICAART	16-18 January, 2018
4.	Dutta A	COMSNET-2018, 10th International Conference on COMmunication Systems & NETworkS	COMSNET	3-7 January, 2018
5.	Kisku, D.R.	Short Term Course on Wavelets and their Application in Signal and Image Processing	Department of Mathematics, IIT Bhu, Varanasi	December 21-25, 2017
6.	Kisku, D.R.	Workshop for Presentations of Research Works of Visvesvaraya Ph.D. Research Scholars	Media Lab Asia, at Andhra University, Visakhapatnam	November 16-18, 2017
7.	Kisku, D.R.	One Day Technical Workshop of Young Faculty Research Fellows of the Visvesvaraya PhD Scheme	Media Lab Asia, at IISc., Bangalore	July 28, 2017
8.	Mukhopadhyay, S.	QIP Short Term Course on Algorithmic Game Theory and Mechanism Design	IISc Bangalore	April 10 - April 14, 2017
9.	Mukhopadhyay, S.	One Day Technical Workshop of Young Faculty Research Fellows of the Visvesvaraya PhD Scheme	Media Lab Aisa, MeitY, Government of India at Andhra University, Visakhapatnam	28th July, 2017

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
10.	Mukhopadhyay, S.	Workshop For Presentations of Research Work of Visvesvaraya PhD Scholars	Media Lab Aisa, MeitY, Government of India at IISc Bangalore	16thNovember - 18th November 2017

Department of Electrical Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Banerjee S	3rd World Summit on Accreditation	NBA	18-20, March, 2016
2	Saha T K	6th World Renewable Energy Technology Congress-2015	Energy and Environment Foundation & MHRD, India	21-23 August, 2015

Department of Management Studies

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Pal, D	'IPSA- NUS Summer School for Social Science Research Methods' (Course name: Qualitative Data Analysis).	National University of Singapore, Singapore	June 26-30, 2017

Department of Mathematics

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Bagchi, S.	Visva-Bharati meet on Algebra and its Applications (VBMAA-2018)	Department of Mathematics, Visva Bharati University, India	24-25 March, 2018
2	Dey L.K.	International Conference on Mathematical Analysis and Applications in Modelling (ICMAAM 2018)	Department of Mathematics, Jadavpur University	9-12, January, 2018
3	Pal, A.	Technical Education Quality Improvement Programme (TEQIP) Phase-III Ministry of HRD	Indian Institute of Technology (BHU) Varanasi	15-17 September, 2017
4	Pal, A.	STEM Teacher Training Workshop on Research Based Pedagogical Tools	Pt. Ravishankar Shukla University, Raipur, Chhattisgarh	06-09 October, 2017
5	Pal, A.	International Conference on Advanced Computational and Communication Paradigms (ICACCP-2017)	Sikkim Manipal Institute of Technology	08-10 September, 2017
6	Pal, A.	5th International Doctoral Symposium on Applied Computation and Security Systems (ACSS-2018)	University of Calcutta	9-11 February, 2018

Department of Mechanical Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Das Asim Kumar	First Course in CFD: Development ,Application & Analysis	IIT, Mumbai	May 29-June 2, 2017
2	Karmakar S.	Two-Day Workshop on "Advances in Solid Fuel Processing and Conversion Technologies"	IIT (ISM), Dhanbad	Jan 29-30, 2018
3	Khan K	International Conference on Mechanical, Materials and Renewable Energy (ICMMRE 2017)	Sikkim Manipal University.	December 8-10, 2017
4	Kumar Deepak	CFD analysis of heat transfer and fluid flow problems using FEM and FVM	IIT(ISM) Dhanbad	July 03-July 07, 2017
5	Mitra Ranjan Kumar	Recent advances in microfluidics: development, application & analysis (ramdaa-2017)	NIT Durgapur	December 6-10, 2017
6	Patari Animesh	First Course in Computational Fluid Dynamics (AICTE Sponsored)	IIT Bombay	May 29-June-02, 2017
7	Pramanik Shantanu	First Course in Computational Fluid Dynamics (AICTE Sponsored)	IIT Bombay	May 29-June-02, 2017
8	Rana S., C.	National Workshop on shock and blast wave research in India	CSIR-CMERI	October 12-13

Department of Metallurgical and Materials Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1.	Mandal D	International conference on sustainable, manufacturing, Automation and Robotics Technologies (IC-SMART-2017)	CSIR-CMERI Durgapur	December 15-16, 2017
2.	Bera Supriya	NMD-ATM 2017	IIM and BITS Goa	Nov 11- 14, 2017
3	Mondal, Manas Kumar	International conference on sustainable, manufacturing, Automation and Robotics Technologies (IC-SMART-2017)	CSIR-CMERI Durgapur	December 15-16, 2017
4	Mondal, Manas Kumar	National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM –2018)	CSIR-CMERI Durgapur	February 16 - 17, 2018
5	Mallik M.	National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM – 2018), February 16-17, 2018	CMERI Durgapur	2018
6	Mallik M.	International Conference On Sustainable Manufacturing, Automation And Robotics Technologies (IC-SMART), December 15-16, 2017	CMERI Durgapur	2018

Department of Physics

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Chakraborty AK	National Conference on "Recent Trends in Condensed Matter Physics (RTCMP-2017)" Invited Lecture	Bose Institute, Kolkata – 700 009	October 31 – November 3, 2017
2	Chakraborty AK	International Conference on Mate-rials for Advanced Technology (ICMAT), Singapore	Materials Research Society, Singapore and Nanyang Technological University	June 18-23, 2017
3	Chaudhuri H	World Multidisciplinary Earth Sciences Symposium-WMESS 2017	Czech Soil Science Society, International Association for Engineering Geology & the Environment at Prague	September 11-15, 2017
4	Chaudhuri H	International Scientific Conference RFBR-DST 10 years of cooperation in supporting Indian –Russian research advancing the future of scientific partnership	Russian Academy of Science, Moscow, Russia	June 21, 2017
5	Chaudhuri H	International Conference Technoprom 2017	Governor Office, Novosibirsk, Russia	June 17- 27, 2017
6	Chaudhuri H	Workshop Faculty Development Programme on Pedagogy under TEQIP-II	NIT Durgapur	March 24, 2017
7	Chaudhuri H	International Symposium International Symposium on Gen Next Initiatives for Digital India	JIS Group along with Bengal Chamber of Commerce and Industry, Kolkata, India	February 23- 24, 2017
8	Chaudhuri H	Seminar : Prof. M. S. Sinha Colloquium 2017	Institute: Physics Department, NIT Durgapur	February 3, 2017
9	Chaudhuri H	Workshop: Brainstorming session on Environmental Geotechnics	Ronil Resort at Goa, India organized by IIT Bombay	January 24- 25, 2017
10	Chaudhuri H	International Conference on Geometry and Mathematical Models in Complex Phenomena - 2017 (ICGMMCP-2017)	Calcutta Mathematical Society), held at Kolkata during	December 5-7, 2017.
11	Kumbhakar P.	5th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2017) (Attended and delivered Invited Talk)	Indian Institute of Technology Guwahati, Guwahati-Assam, India	Dec. 18-21 2017
12	Kumbhakar P.	National Conference on Graphene and Functional Materials (NCGFM-2018) (Attended and delivered Invited Talk)	CSIR–CMERI, Durgapur	Feb. 23 – 25, 2018
13	Kumbhakar P.	National Conference on Advances in Spectroscopic Techniques and Materials (ASTM-2018)" (Invited Talk on March 16, 2018)	IIT (ISM) Dhanbad	March 14-16, 2018

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
14	Kumbhakar P.	National Training Programme "Advanced Materials Characterization Techniques" (Invited Talk on March 22, 2018)	IIT (ISM) Dhanbad	March 19 - 24, 2018
15	Kumbhakar P.	Departmental Seminar (Invited Lecture)	Durgapur Women's College, Durgapur	8 th Sept., 2017
16	Meikap A.K.	National Conference on "Recent Trends in Condensed Matter Physics (RTCMP-2017)"	Bose Institute, Kolkata – 700 009	October 31 – November 3, 2017
17	Meikap A.K.	5th International Conference on "Advanced Nano-materials & Nano-technology (ICANN-2017)"	Indian Institute of Technology Guwahati, Guwahati – 781039	December 18-21, 2017
18	Meikap A.K.	National Seminar "62nd DAE Solid State Physics Symposium (DAE-SSPS-2017)"	Bhabha Atomic Research Centre (BARC) Mumbai	December 26-30, 2017
19	Mondal A.	International Conference on Sculptured Thin Films (GLAD 2018)	Indian Institute of Technology Delhi,	30-31st March 2018.
20	Sahoo S.	National Seminar on "Recent Advances in Physics and its Applications"	BJB Autonomous College, Bhubaneswar, Odisha	10–11 February, 2018

Annexure – 11.7(c) Training of staff members during 2017-18

Department of Chemical Engineering

Sl. No.	Name	Name of the Programme	Organized by	Date of the programme
1	Mishra, G.	Staff Development Program	NIT, Durgapur	20-22th March, 2017
2	Purkait, G.	Staff Development Program	NIT, Durgapur	20-22th March, 2017

Annexure– 11.8(a) List of programmes offered

11.8. (a). 1. Under-graduate Programmes

The Institute offers the following programmes leading to 4 Year (8 Semester) B.Tech. Degree:

Name of the programme	Department
Bachelor of Technology in Biotechnology	Biotechnology
Bachelor of Technology in Chemical Engineering	Chemical Engineering
Bachelor of Technology in Computer Science & Engineering	Computer Science & Engineering
Bachelor of Technology in Civil Engineering	Civil Engineering
Bachelor of Technology in Electronics & Communication Engineering	Electronics & Communication Engineering
Bachelor of Technology in Electrical Engineering	Electrical Engineering
Bachelor of Technology in Information technology	Computer Science & Engineering
Bachelor of Technology in Metallurgical & Materials Engineering	Metallurgical & Materials Engineering
Bachelor of Technology in Mechanical Engineering	Mechanical Engineering
B.Tech & M.Tech Dual Degree in Biotechnology	Biotechnology
B.Tech & M.Tech Dual Degree in Chemical Engineering	Chemical Engineering
5 year integrated M.Sc in Chemistry	Chemistry

11.8. (a). 2. Post – Graduate Programmes

M. Tech. programmes:

Dept. / Specialisation	Year of Starting	Full / Part time	Duration
Biotechnology	2008	Full Time	2 years
Chemical Engineering	1968	Full Time	2 years
Civil Engineering (Structural Engineering)	1971	Full Time	2 years
Computer Science & Engineering (Information Technology)	2004	Full Time	2 years
Electrical Engineering (Electrical System)	1969	Full Time	2 years
Electronics & Communication Engg (Telecommunication Engg)	2005	Full Time	2 years
Electronics & Communication Engg (Microelectronics & VLSI)	2008	Full Time	2 years
Earth & Environmental Studies – co-ordinating dept. (Environmental Science & Technology)	2008	Full Time	2 years
Mathematics (Operations Research)	1990	Full Time	2 Years
Mechanical Engineering (Machine Design)	1966	Full Time	2 years
Metallurgical and Materials Engineering (Metallurgy and Materials Technology)	1966	Full Time	2 years
Entrepreneurship and Innovation	2015	Full Time	2years
Physics (Advanced Materials Science & Technology)	2006	Full Time	2 years
Civil Engineering (Geotechnical Engineering)	2014	Full Time	2 years
Electrical Engineering (Power Electronics and Machine Drives)	2014	Full Time	2 years
Mechanical Engineering (Fluid Mechanics and Heat Transfer)	2014	Full Time	2 years
Mechanical Engineering (Thermal Engineering)	2014	Full Time	2 years
Computer Science & Engineering (High Performance Computing)	2014	Full Time	2years
Computer Science & Engineering (Software Engineering)	2011	Full Time	2 years

Other programmes:

Dept. / Specialisation	Year of Starting	Full / Part time	Duration
Management Studies (MBA)	Full Time	2004	2 Years
Computer Science & Engineering (MCA)	Full Time	2000	3 Years
Physics (M. Sc. in Physics)	Full Time	2009	2 Years
Chemistry (M. Sc. in Chemistry)	Full Time	2009	2 Years
Mathematics (M. Sc. in Mathematics with Computer Applications))	Full Time	2010	2 Years
Humanities and Social Sciences (Masters in Social Work)	Full Time	2017	2 Years

Annexure–11.8(b) Programme-wise enrolment with gender and caste break-up

11.8. (b)1. Enrolment in B.Tech programmes, 2017-2018 (Genderwise):

Enrolment of Indian students in odd semesters of B. Tech. courses, 2017 - 2018 Gender wise:

Semester	BT		ChE		CE		CSE		EC E		EE		IT		ME		MME		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech I	36	17	50	12	56	8	58	10	66	16	66	14	59	10	135	3	48	14	574	104
B.Tech III	19	12	32	20	48	3	77	15	76	19	68	18	67	18	128	11	49	7	564	123
B.Tech V	50	23	45	14	42	7	64	30	70	29	71	22	62	22	134	2	52	19	590	168
B.Tech VII	53	27	43	22	63	5	85	22	69	25	79	15	56	32	136	5	56	15	640	168
Total	**158**	**79**	**170**	**68**	**209**	**23**	**284**	**77**	**281**	**89**	**284**	**69**	**244**	**82**	**533**	**21**	**205**	**55**	**2368**	**563**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

Semester	BT		ChE		CE		CSE		ECE		EE		IT		ME		MME		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech II	35	17	50	12	55	8	58	10	65	16	65	14	59	10	135	3	48	14	570	104
B.Tech IV	19	12	32	20	48	3	77	15	76	19	68	18	67	18	128	11	49	7	564	123
B.Tech VI	50	23	45	14	42	7	64	30	70	29	71	22	62	22	134	2	52	19	590	168
B.Tech VIII	53	27	43	22	63	5	85	22	69	25	79	15	56	32	136	5	56	15	640	168
Total	**157**	**79**	**170**	**68**	**208**	**23**	**284**	**77**	**280**	**89**	**283**	**69**	**244**	**82**	**533**	**21**	**205**	**55**	**2364**	**563**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8 (b)1. Enrolment in B. Tech & M. Tech Dual Degree programmes (all students), 2017-18 (Genderwise):

Semester	BT		ChE		Total	
	M	F	M	F	M	F
Dual Degree I	4	1	2	1	6	2
Dual Degree III	0	0	0	0	0	0
Dual Degree V	0	0	0	0	0	0
Dual Degree VII	0	0	0	0	0	0
Total	**4**	**1**	**2**	**1**	**6**	**2**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8 (b)1. Enrolment in Integrated M.Sc. programmes (all students), 2017-18 (Genderwise):

Semester	ChE		Total	
	M	F	M	F
INT M.Sc. I	11	2	11	2
INT M.Sc. III	0	0	0	0
INT M.Sc. V	0	0	0	0
INT M.Sc. VII	0	0	0	0
Total	**11**	**2**	**11**	**2**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8 (b)1. Enrolment in B. Tech & M. Tech Dual Degree programmes (all students), 2017-18 (Genderwise):

Semester	BT		ChE		Total	
	M	F	M	F	M	F
Dual Degree II	4	1	2	1	6	2
Dual Degree IV	0	0	0	0	0	0
Dual Degree VI	0	0	0	0	0	0
Dual Degree VIII	0	0	0	0	0	0
Total	**4**	**1**	**2**	**1**	**6**	**2**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8 (b)1. Enrolment in Integrated M.Sc. programmes (all students), 2017-18 (Genderwise):

Semester	ChE		Total	
	M	F	M	F
INT M.Sc. II	11	2	11	2
INT M.Sc. IV	0	0	0	0
INT M.Sc. VI	0	0	0	0
INT M.Sc. VIII	0	0	0	0
Total	**11**	**2**	**11**	**2**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8 (b)2. Enrolment of Foreign Students in B.Tech. programmes, 2017-18 (Genderwise):

Enrolment of Indian students in odd semesters of B. Tech. courses, 2017 - 2018 Genderwise:

Semester	BT		ChE		CE		CSE		ECE		EE		IT		ME		MME		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech I	1	0	0	1	3	0	4	4	4	1	0	0	4	1	5	1	0	0	21	8
B.Tech III	1	0	0	0	1	0	5	0	2	0	2	1	1	1	4	3	0	0	16	5
B.Tech V	0	1	0	0	0	0	7	3	2	1	1	1	0	0	2	0	0	0	12	6
B.Tech VII	1	1	1	4	4	1	6	4	2	2	3	0	0	0	9	2	0	0	26	14
Total	**3**	**2**	**1**	**5**	**8**	**1**	**22**	**11**	**10**	**4**	**6**	**2**	**5**	**2**	**20**	**6**	**0**	**0**	**75**	**33**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

Semester	BT		ChE		CE		CSE		ECE		EE		IT		ME		MME		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
B.Tech II	1	0	0	1	3	0	4	4	4	1	0	0	4	1	5	1	0	0	21	8
B.Tech IV	1	0	0	0	1	0	5	0	2	0	2	1	1	1	4	3	0	0	16	5
B.Tech VI	0	1	0	0	0	0	7	3	2	1	1	1	0	0	2	0	0	0	12	6
B.Tech VIII	1	1	1	4	4	1	6	4	2	2	3	0	0	0	9	2	0	0	26	14
Total	**3**	**2**	**1**	**5**	**8**	**1**	**22**	**11**	**10**	**4**	**6**	**2**	**5**	**2**	**20**	**6**	**0**	**0**	**75**	**33**

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8.(b)2. Enrolment in B.Tech. Programmes, 2017-18 (Castewise)

Dept	B.Tech					B.TECH					B.TECH					B.TECH				
	I Semester					III Semester					V Semester					VII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	20	8	4	20	52	11	6	4	9	30	31	11	7	23	72	39	10	5	24	78
ChE	29	8	5	19	61	24	7	5	16	52	29	6	4	20	59	32	6	5	17	60

Dept	B.Tech					B.TECH					B.TECH					B.TECH				
	I Semester					III Semester					V Semester					VII Semester				
CE	28	9	4	20	61	22	6	5	17	50	21	8	5	15	49	33	8	3	19	63
CSE	30	10	4	16	60	43	13	7	24	87	45	9	7	23	84	49	16	7	25	97
ECE	37	12	6	22	77	44	15	6	28	93	47	15	8	26	96	44	14	6	26	90
EE	39	12	6	23	80	41	11	5	26	83	44	13	6	28	91	44	13	7	27	91
IT	31	9	4	20	64	41	11	7	24	83	42	13	6	23	84	46	13	6	23	88
ME	66	19	10	37	132	64	20	9	39	132	60	22	9	43	134	65	17	10	38	130
MME	27	10	5	20	62	26	10	5	15	56	29	13	7	22	71	35	12	5	19	71
Total	**307**	**97**	**48**	**197**	**649**	**316**	**99**	**53**	**198**	**666**	**348**	**110**	**59**	**223**	**740**	**387**	**109**	**54**	**218**	**768**

11.8.(b)2. Enrolment in B.Tech & M. Tech Dual Degree Programmes,2017-18 (Castewise)

Dept	Dual Degree					Dual Degree					Dual Degree					Dual Degree				
	I Semester					III Semester					V Semester					VII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	4	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ChE	1	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**5**	**1**	**0**	**2**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

11.8.(b)2. Enrolment in 5 year Integrated M.Sc. Programmes,2017-18 (Castewise)

Dept	INT M.Sc.					INT M.Sc.					INT M.Sc.					INT M.Sc.				
	I Semester					III Semester					V Semester					VII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
Chem	5	4	1	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**5**	**4**	**1**	**3**	**13**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

11.8.(b)2. Enrolment in B.Tech. Programmes,2017-18 (Castewise)

Dept	B.Tech					B.TECH					B.TECH					B.TECH				
	II Semester					IV Semester					VI Semester					VIII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	20	7	4	20	51	11	6	4	9	30	31	11	6	23	71	39	10	5	24	78
ChE	29	8	5	19	61	24	7	5	16	52	29	6	4	20	59	32	6	5	17	60
CE	27	9	4	20	60	22	6	5	17	50	21	8	5	15	49	33	8	3	19	63
CSE	30	10	4	16	60	43	13	7	24	87	45	9	7	23	84	49	16	7	25	97
ECE	36	12	6	22	76	44	15	6	28	93	47	15	8	26	96	44	14	6	26	90
EE	38	12	6	23	79	41	11	5	26	83	44	13	6	28	91	44	13	7	27	91
IT	31	9	4	20	64	41	11	7	24	83	42	13	6	23	84	46	13	6	23	88
ME	66	19	10	37	132	64	20	9	39	132	60	21	9	43	133	65	17	10	38	130
MME	27	10	5	20	62	26	10	5	15	56	29	13	7	22	71	35	12	5	19	71
Total	**304**	**96**	**48**	**197**	**645**	**316**	**99**	**53**	**198**	**666**	**348**	**109**	**58**	**223**	**738**	**387**	**109**	**54**	**218**	**768**

11.8.(b)2. Enrolment in B.Tech & M. Tech Dual Degree Programmes, 2017-18 (Castewise)

Dept	Dual Degree					Dual Degree					Dual Degree					Dual Degree				
	II Semester					IV Semester					VI Semester					VIII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	4	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ChE	1	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**5**	**1**	**0**	**2**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Dept	INT M.Sc.					INT M.Sc.					INT M.Sc.					INT M.Sc.				
	II Semester					IV Semester					VI Semester					VIII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
Chem	5	4	1	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**5**	**4**	**1**	**3**	**13**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

11.8.(b)3. Enrolment in M.Tech. & M.Sc Programmes, 2017-18 (Genderwise)

Semester	BT	CH	CY (CST)	CE (SE)	CE (GE)	CS	CS (HPC)	CS (SE)	EE (PS)	EE (PMD)	EC (TE)	EC (VL)	ES (EST)
M.Tech II	8 (3)	5 (1)	0 (0)	12 (4)	11 (4)	14 (4)	--	4 (1)	12 (4)	12 (3)	7 (1)	13 (7)	12 (3)
M.Tech IV	20 (13)	12 (5)	1 (0)	19 (1)	13 (5)	18 (9)	8 (2)	9 (3)	17 (4)	16 (6)	17 (6)	18 (5)	17 (3)
M.Tech VI	0 (0)	0 (0)	0 (0)	2 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc II	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc IV	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Semester	H S S (EI)	CS (IT)	MA (OR)	ME (MD)	ME (FMHT)	ME (TE)	MM (MT)	PH (AMS)	M. Sc (CY)	M. Sc (MA)	M. Sc (PH)	TOTAL	ES (EST)
M.Tech II	12 (1)	7 (2)	14 (5)	13 (0)	11 (0)	14 (1)	11 (0)	15 (3)	0 (0)	0 (0)	0 (0)	206 (47)	12 (3)
M.Tech IV	7 (0)	12 (4)	8 (3)	11 (1)	14 (2)	17 (1)	9 (0)	8 (2)	0 (0)	0 (0)	0 (0)	271 (75)	17 (3)
M.Tech VI	0 (0)	0 (0)	2 (0)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (0)	0 (0)
M.Sc II	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	8 (2)	9 (5)	13 (4)	30 (11)	0 (0)
M.Sc IV	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	13 (7)	15 (4)	11 (2)	39 (13)	0 (0)

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8.(b)4. Enrolment in M.Tech & M.Sc. Programmes, 2017-18 (Castewise)

Dept./Year	II					IV					VI				
	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
BT	3 (1)	3 (1)	0 (0)	2 (1)	8 (3)	11 (7)	3 (1)	1 (1)	5 (4)	20 (13)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CH	4 (1)	1 (0)	0 (0)	0 (0)	5 (1)	8 (3)	2 (1)	1 (1)	1 (0)	12 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CY	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CE (SE)	5 (1)	2 (2)	1 (0)	4 (1)	12 (4)	13 (0)	2 (0)	0 (0)	4 (1)	19 (1)	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)
CE (GT)	6 (3)	2 (0)	0 (0)	3 (1)	11 (4)	8 (5)	1 (0)	0 (0)	4 (0)	13 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CS	7 (2)	2 (0)	1 (0)	4 (2)	14 (4)	12 (6)	2 (0)	1 (1)	3 (2)	18 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CS (HPC)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3 (1)	3 (0)	0 (0)	2 (1)	8 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CS (IT)	4 (1)	0 (0)	1 (0)	2 (1)	7 (2)	8 (3)	2 (1)	2 (0)	0 (0)	12 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CS (SE)	4 (1)	0 (0)	0 (0)	0 (0)	4 (1)	5 (3)	2 (0)	0 (0)	2 (0)	9 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
EE (PS)	3 (0)	1 (0)	1 (1)	7 (3)	12 (4)	7 (1)	2 (2)	1 (1)	6 (0)	16 (4)	2 (0)	1 (0)	0 (0)	0 (0)	3 (0)
EE(PMD)	6 (1)	2 (0)	0 (0)	4 (2)	12 (3)	7 (3)	2 (1)	1 (0)	6 (2)	16 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
EC (TE)	5 (1)	2 (0)	0 (0)	0 (0)	7 (1)	7 (3)	4 (2)	0 (0)	7 (1)	18 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
EC (VL)	4 (2)	1 (1)	1 (1)	7 (3)	13 (7)	8 (4)	3 (1)	1 (0)	6 (0)	18 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ES	6 (3)	2 (0)	1 (0)	3 (0)	12 (3)	8 (2)	4 (1)	0 (0)	5 (0)	17 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
HSS (EI)	8 (0)	0 (0)	1 (0)	3 (1)	12 (1)	3 (0)	0 (0)	0 (0)	4 (0)	7 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
MA (OR)	8 (3)	2 (1)	0 (0)	4 (1)	14 (5)	4 (1)	0 (0)	0 (0)	4 (2)	8 (3)	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)
ME (MD)	6 (0)	2 (0)	0 (0)	5 (0)	13 (0)	5 (0)	2 (0)	0 (0)	4 (1)	11 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ME (FMHT)	4 (0)	2 (0)	0 (0)	5 (0)	11 (0)	10 (2)	0 (0)	0 (0)	4 (0)	14 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ME (TE)	7 (0)	2 (1)	1 (0)	4 (0)	14 (1)	9 (1)	2 (0)	1 (0)	5 (0)	17 (1)	0 (0)	1 (0)	0 (0)	0 (0)	1 (0)
MM (MT)	6 (0)	1 (0)	0 (0)	4 (0)	11 (0)	5 (0)	2 (0)	0 (0)	2 (0)	9 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
PH (AMS)	7 (0)	2 (1)	1 (1)	5 (1)	15 (3)	3 (2)	2 (0)	0 (0)	3 (0)	8 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc (CY)	3 (1)	2 (1)	0 (0)	3 (0)	8 (2)	7 (4)	2 (1)	1 (0)	3 (2)	13 (7)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc (MA)	4 (1)	1 (1)	0 (0)	4 (3)	9 (5)	7 (1)	2 (1)	1(1)	5 (1)	15 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc (PH)	7 (2)	3 (1)	0 (0)	3 (1)	13 (4)	7 (2)	1 (0)	0 (0)	3 (0)	11 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Total	**117 (24)**	**35 (10)**	**9 (3)**	**77 (21)**	**237 (58)**	**165 (54)**	**46 (12)**	**11 (5)**	**88 (17)**	**310 (88)**	**6 (0)**	**2 (0)**	**0 (0)**	**0 (0)**	**8 (0)**

11.8(b)5. Enrolment in MCA Programme, 2017-18 (Genderwise)

Master of Computer Applications (MCA)	II Semester	IV Semester	VI Semester
	29 (10)	34 (9)	69 (21)

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8. (b)6. Enrolment in MCA Programme, 2017-18 (Castewise)

	MCA II					MCA IV					MCA VI				
MCA	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
	15 (6)	5 (2)	2 (0)	7 (2)	29 (11)	17 (5)	6 (0)	1 (0)	10 (4)	34 (9)	29 (13)	12 (0)	5 (2)	23 (6)	69 (21)

11.8. (b)7. Enrolment in MBA programmes, 2017-18 (Gender wise)

Master of Business Administration (MBA)	II Semester	IV Semester
	28 (13)	20 (11)

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8. (b)8. Enrolment in MBA Programme, 2017-18 (Castewise)

	MBA II					MBA IV				
MBA	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
	19 (10)	5 (2)	0 (0)	4 (1)	28 (13)	15 (8)	2 (0)	0 (0)	3 (3)	20 (11)

11.8.(b)7. Enrolment in MSW Programme, 2017-18 (Genderwise)

Master of Social Work (MSW)	II Semester	IV Semester
	11 (9)	0 (0)

(Number of female students indicated in parentheses ; the total number is inclusive of the number of female students)

11.8. (b)8. Enrolment in MSW Programme, 2017-18 (Castewise)

	MSW II					MSW IV				
MSW	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
	7 (7)	0 (0)	1 (0)	3 (2)	11 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

11.8.(b)9. Enrolment of Research Scholars for PhD during 2017-2018

Sl. No.	Branch of Research Study	Gender Break Up		Caste Break Up				Total
		Male	Female	OP	SC	ST	OBC	
1	Biotechnology	1	3	2	1	0	1	4
2	Chemical Engineering	1	1	1	1	0	0	2
3	Chemistry	2	1	2	1	0	0	3
4	Civil Engineering	2	1	3	0	0	0	3
5	Computer Applications	0	0	0	0	0	0	0
6	Computer Science & Engineering	6	2	3	0	2	3	8
7	Earth & Environmental Studies	1	0	1	0	0	0	1
8	Electrical Engineering	4	1	2	1	0	5	5
9	Electronics & Communications Engineering	5	0	3	2	0		

Sl. No.	Branch of Research Study	Gender Break Up		Caste Break Up				Total
		Male	Female	OP	SC	ST	OBC	
10	Humanities & Social Sciences	0	2	2	0	0	0	2
11	Management Studies	1	0	1	0	0	0	1
12	Mathematics	8	1	6	0	0	3	9
13	Mechanical Engineering	6	0	2	2	0	2	6
14	Metallurgical & Materials Engineering	3	0	2	0	0	1	3
15	Physics	3	2	4	0	0	1	5
	Total	**43**	**14**	**34**	**8**	**3**	**12**	**57**

Annexure – 11.8 (c) Admission statistics – UG & PG

11.8 (c)1. The number of candidates admitted to B. Tech. Programmes from rural and urban area during 2017-2018

Sl. No.	STATE	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	TOTAL	OP	OB	SC	ST	TOTAL	
1	Andhra Pradesh	18	8	5	3	34	12	5	0	0	17	51
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
3	Assam	0	0	0	4	4	0	0	0	2	2	6
4	Bihar	22	22	5	0	49	12	11	2	0	25	74
5	Chattisgarh	1	0	1	0	2	0	0	1	0	1	3
6	Delhi	0	0	1	0	1	1	0	0	0	1	2
7	Chandigarh	0	0	0	0	0	0	0	0	0	0	0
8	Goa	0	0	0	0	0	0	0	0	0	0	0
9	Gujarat	0	0	0	0	0	1	0	2	0	3	3
10	Haryana	0	0	0	0	0	2	0	1	0	3	3
11	Himachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
12	Jammu & Kashmir	0	0	0	0	0	0	0	0	0	0	0
13	Jharkhand	1	7	2	2	12	5	4	0	0	9	21
14	Karnataka	0	0	0	0	0	1	0	0	0	1	1
15	Kerala	3	0	0	0	3	0	0	0	0	0	3
16	Madhya Pradesh	2	0	0	0	2	0	1	1	0	2	4
17	Maharashtra	2	3	1	0	6	4	1	0	0	5	11
18	Manipur	0	0	0	0	0	0	0	0	1	1	1
19	Meghalaya	0	0	0	0	0	0	0	0	0	0	0
20	Mizoram	0	0	0	1	1	0	0	0	0	0	1
21	Nagaland	0	0	0	0	0	0	0	0	0	0	0
22	Odisha	0	1	0	0	1	3	1	0	0	4	5
23	Punjab	0	0	0	0	0	0	0	0	0	0	0
24	Rajasthan	4	6	4	2	16	5	1	4	0	10	26
25	Poducheri	0	0	0	0	0	0	0	0	0	0	0
26	Sikkim	0	0	0	0	0	0	0	0	0	0	0
27	Tamil Nadu	0	1	0	0	1	0	0	0	0	0	1
28	Telengana	4	4	6	5	19	7	2	0	2	11	30
29	Tripura	0	0	0	0	0	0	0	0	0	0	0
30	Uttar Pradesh	20	17	9	1	47	25	11	2	0	38	85
31	Uttarakhand	0	0	1	0	1	2	0	0	0	2	3
32	West Bengal	51	54	28	14	147	104	35	22	9	170	317
33	Andaman & Nicobar	0	3	0	0	3	2	2	1	0	5	8
34	Bangladesh	12	0	0	0	12	8	0	0	0	8	20
	TOTAL	**140**	**126**	**63**	**32**	**361**	**194**	**74**	**36**	**14**	**318**	**679**

11.8.(c)2. The number of candidates admitted to B.Tech & M. Tech Dual Degree programme from rural and urban area during 2017-2018-1st Year.

Sl. No.	STATE	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	TOTAL	OP	OB	SC	ST	TOTAL	
1	Andhra Pradesh	0	0	0	0	0	0	0	0	0	0	0
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
3	Assam	0	0	0	0	0	0	0	0	0	0	0
4	Bihar	0	1	0	0	1	0	0	0	0	0	1
5	Chattisgarh	0	0	0	0	0	0	0	0	0	0	0
6	Delhi	0	0	0	0	0	0	0	0	0	0	0
7	Chandigarh	0	0	0	0	0	0	0	0	0	0	0
8	Goa	0	0	0	0	0	0	0	0	0	0	0
9	Gujarat	0	0	0	0	0	0	0	0	0	0	0
10	Haryana	0	0	0	0	0	0	0	0	0	0	0
11	Himachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
12	Jammu & Kashmir	0	0	0	0	0	0	0	0	0	0	0
13	Jharkhand	0	0	0	0	0	0	0	0	0	0	0
14	Karnataka	0	0	0	0	0	0	0	0	0	0	0
15	Kerala	0	0	0	0	0	0	0	0	0	0	0
16	Madhya Pradesh	0	0	0	0	0	0	0	0	0	0	0
17	Maharashtra	0	0	0	0	0	0	0	0	0	0	0
18	Manipur	0	0	0	0	0	0	0	0	0	0	0
19	Meghalaya	0	0	0	0	0	0	0	0	0	0	0
20	Mizoram	0	0	0	0	0	0	0	0	0	0	0
21	Nagaland	0	0	0	0	0	0	0	0	0	0	0
22	Odisha	0	0	0	0	0	0	0	0	0	0	0
23	Punjab	0	0	0	0	0	0	0	0	0	0	0
24	Rajasthan	0	0	0	0	0	0	0	0	0	0	0
25	Poducheri	0	0	0	0	0	0	0	0	0	0	0
26	Sikkim	0	0	0	0	0	0	0	0	0	0	0
27	Tamil Nadu	0	0	0	0	0	0	0	0	0	0	0
28	Telengana	0	0	0	0	0	0	0	0	0	0	0
29	Tripura	0	0	0	0	0	0	0	0	0	0	0
30	Uttar Pradesh	1	1	1	0	3	0	0	0	0	0	3
31	Uttarakhand	0	0	0	0	0	0	0	0	0	0	0
32	West Bengal	2	0	0	0	2	1	0	1	0	2	4
33	Andaman & Nicobar	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	**3**	**2**	**1**	**0**	**6**	**1**	**0**	**1**	**0**	**2**	**8**

11.8.(c)2. The number of candidates admitted to Integrated M.Sc. programme from rural and urban area during 2017-2018-1st Year.

Sl. No.	STATE	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	TOTAL	OP	OB	SC	ST	TOTAL	
1	Andhra Pradesh	0	1	0	0	1	0	0	0	0	0	1
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
3	Assam	0	1	0	0	1	0	0	0	0	0	1
4	Bihar	0	1	1	0	2	0	0	0	0	0	2
5	Chattisgarh	0	0	0	0	0	0	0	0	0	0	0
6	Delhi	0	0	0	0	0	0	0	0	0	0	0
7	Chandigarh	0	0	0	0	0	0	0	0	0	0	0
8	Goa	0	0	0	0	0	0	0	0	0	0	0
9	Gujarat	0	0	0	0	0	0	0	0	0	0	0
10	Haryana	0	0	0	0	0	0	0	0	0	0	0

Sl. No.	STATE	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	TOTAL	OP	OB	SC	ST	TOTAL	
11	Himachal Pradesh	0	0	0	0	0	0	0	0	0	0	0
12	Jammu & Kashmir	0	0	0	0	0	0	0	0	0	0	0
13	Jharkhand	0	0	0	0	0	0	0	0	0	0	0
14	Karnataka	0	0	0	0	0	0	0	0	0	0	0
15	Kerala	0	0	0	0	0	0	0	0	0	0	0
16	Madhya Pradesh	0	0	0	0	0	0	0	0	0	0	0
17	Maharashtra	0	0	0	0	0	0	0	0	0	0	0
18	Manipur	0	0	0	0	0	0	0	0	0	0	0
19	Meghalaya	0	0	0	0	0	0	0	0	0	0	0
20	Mizoram	0	0	0	0	0	0	0	0	0	0	0
21	Nagaland	0	0	0	0	0	0	0	0	0	0	0
22	Odisha	0	0	0	0	0	0	0	0	0	0	0
23	Punjab	0	0	0	0	0	0	0	0	0	0	0
24	Rajasthan	1	0	0	1	2	0	0	0	0	0	2
25	Poducheri	0	0	0	0	0	0	0	0	0	0	0
26	Sikkim	0	0	0	0	0	0	0	0	0	0	0
27	Tamil Nadu	0	0	0	0	0	0	0	0	0	0	0
28	Telengana	0	0	0	0	0	0	0	0	0	0	0
29	Tripura	0	0	0	0	0	0	0	0	0	0	0
30	Uttar Pradesh	1	0	1	0	2	1	0	0	0	1	3
31	Uttarakhand	0	0	0	0	0	0	0	0	0	0	0
32	West Bengal	0	0	0	0	0	2	0	2	0	4	4
33	Andaman & Nicobar	0	0	0	0	0	0	0	0	0	0	0
	Total	**2**	**3**	**2**	**1**	**8**	**3**	**0**	**2**	**0**	**5**	**13**

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to B.Tech programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andhra Pradesh	7905	35947	5065	73083	1971	163412	783	117945
2	Arunachal Pradesh	0	0	0	0	0	0	0	0
3	Assam	0	0	0	0	0	0	1744	521307
4	Bihar	243	59372	591	269534	78337	141253	96176	130385
5	Chatishgarh	17331	17331	0	0	95731	98039	0	0
6	Delhi	32	32	0	0	2806	2806	0	0
7	Goa	0	0	0	0	0	0	0	0
8	Gujarat	19661	19661	0	0	3921	131093	0	0
9	Haryana	17850	59510			103966	103966		
10	Himachal Pradesh	0	0	0	0	0	0	0	0
11	Jammu & Kashmir	0	0	0	0	0	0	0	0
12	Jharkhand	6574	28990	4217	96522	46615	47666	136301	198562
13	Karnataka	11265	11265	0	0	0	0	0	0
14	Kerala	17638	17638	0	0	0	0	0	0
15	Madhya Pradesh	26707	35288	25255	25255	61687	61687	0	0
16	Maharashtra	8622	52718	5938	106232	180061	180061	0	0
17	Manipur	0	0	0	0	0	0	1396	1396
18	Meghalaya	0	0	0	0	0	0	0	0
19	Mizoram	0	0	0	0	0	0	127861	127861
20	Nagaland	0	0	0	0	0	0	0	0
21	Odisha	870	41078	331	582745	0	0	0	0
22	Punjab	0	0	0	0	0	0	0	0

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
23	Rajasthan	12185	35390	19065	88819	954	143978	1488	130772
24	Sikkim	0	0	0	0	0	0	0	0
25	Tamil Nadu	0	0	66040	66040	0	0	0	0
26	Telengana	6650	19461	4591	24383	2695	159219	1525	213867
27	Tripura	0	0	0	0	0	0	0	0
28	Uttar Pradesh	730	90203	2326	82468	1346	135985	136747	136747
29	Uttaranchal	9003	17744	0	0	89407	89407	0	0
30	West Bengal	550	660023	694	309236	1061	209358	2086	479754
31	Andaman & Nicobar	131929	331168	216496	309877	757652	757652	0	0

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to B.Tech & M. Tech Dual Degree programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andhra Pradesh	0	0	0	0	0	0	0	0
2	Arunachal Pradesh	0	0	0	0	0	0	0	0
3	Assam	0	0	0	0	0	0	0	0
4	Bihar	0	0	69318	69318	0	0	0	0
5	Chatishgarh	0	0	0	0	0	0	0	0
6	Chandigarh	0	0	0	0	0	0	0	0
7	Goa	0	0	0	0	0	0	0	0
8	Gujarat	0	0	0	0	0	0	0	0
9	Haryana	0	0	0	0	0	0	0	0
10	Himachal Pradesh	0	0	0	0	0	0	0	0
11	Jammu & Kashmir	0	0	0	0	0	0	0	0
12	Jharkhand	0	0	0	0	0	0	0	0
13	Karnataka	0	0	0	0	0	0	0	0
14	Kerala	0	0	0	0	0	0	0	0
15	Madhya Pradesh	0	0	0	0	0	0	0	0
16	Maharashtra	0	0	0	0	0	0	0	0
17	Manipur	0	0	0	0	0	0	0	0
18	Meghalaya	0	0	0	0	0	0	0	0
19	Mizoram	0	0	0	0	0	0	0	0
20	Nagaland	0	0	0	0	0	0	0	0
21	Odisha	0	0	0	0	0	0	0	0
22	Punjab	0	0	0	0	0	0	0	0
23	Rajasthan	0	0	0	0	0	0	0	0
24	Sikkim	0	0	0	0	0	0	0	0
25	Tamil Nadu	0	0	0	0	0	0	0	0
26	Telengana	0	0	0	0	0	0	0	0
27	Tripura	0	0	0	0	0	0	0	0
28	Uttar Pradesh	49143	49143	43436	43436	138734	138734	0	0
29	Uttarakhand	0	0	0	0	0	0	0	0
30	West Bengal	28898	47740	0	0	475766	475766	0	0
31	Andaman & Nicobar	0	0	0	0	0	0	0	0

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to Integrated M. Sc. programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andhra Pradesh	0	0	207173	207173	0	0	0	0
2	Arunachal Pradesh	0	0	0	0	0	0	0	0
3	Assam	0	0	152941	152941	0	0	0	0
4	Bihar	0	0	147934	147934	281307	281307	0	0
5	Chattisgarh	0	0	0	0	0	0	0	0
6	Chandigarh	0	0	0	0	0	0	0	0
7	Goa	0	0	0	0	0	0	0	0
8	Gujarat	0	0	0	0	0	0	0	0
9	Haryana	0	0	0	0	0	0	0	0
10	Himachal Pradesh	0	0	0	0	0	0	0	0
11	Jammu & Kashmir	0	0	0	0	0	0	0	0
12	Jharkhand	0	0	0	0	0	0	0	0
13	Karnataka	0	0	0	0	0	0	0	0
14	Kerala	0	0	0	0	0	0	0	0
15	Madhya Pradesh	0	0	0	0	0	0	0	0
16	Maharashtra	0	0	0	0	0	0	0	0
17	Manipur	0	0	0	0	0	0	0	0
18	Meghalaya	0	0	0	0	0	0	0	0
19	Mizoram	0	0	0	0	0	0	0	0
20	Nagaland	0	0	0	0	0	0	0	0
21	Odisha	0	0	0	0	0	0	0	0
22	Punjab	0	0	0	0	0	0	0	0
23	Rajasthan	63930	63930	0	0	0	0	373971	373971
24	Sikkim	0	0	0	0	0	0	0	0
25	Tamil Nadu	0	0	0	0	0	0	0	0
26	Telengana	0	0	0	0	0	0	0	0
27	Tripura	0	0	0	0	0	0	0	0
28	Uttar Pradesh	20087	69938	0	0	317524	317524	0	0
29	Uttarakhand	0	0	0	0	0	0	0	0
30	West Bengal	125175	181098	0	0	120863	508764	0	0
31	Andaman & Nicobar	0	0	0	0	0	0	0	0

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to B.Tech programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	BT	992	222040	591	309236	6694	209358	3226	336885
2	CHE	21141	660023	6681	582745	2542	131093	1744	521307
3	CE	243	331168	6624	298918	2469	130368	1396	268989
4	CSE	6574	90203	2326	38681	954	57870	91675	161203
5	ECE	11015	116086	331	54104	2741	7576	1525	185829
6	EE	870	31041	4225	269534	2806	113657	783	198562
7	IT	32	27133	4701	309877	2744	103966	22236	225553
8	ME	730	297271	694	216496	1971	100191	1488	367903
9	MME	23539	64909	9889	134103	4020	143978	12032	479754

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to B.Tech & M. Tech Dual Degree programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	BT	41544	49143	69318	NIL	475766	NIL	NIL	NIL
2	CHE	47740	NIL	43436	NIL	138734	NIL	NIL	NIL

11.8.(c)3. The Ranks(AIR) obtained by the first and the last candidates admitted to Integrated M. Sc. programme during 2017-2018-1st Year

Sl. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Chem	20087	181098	147934	207173	120863	508764	373971	NIL

11.8.(c)4. The number of candidates admitted to B.Tech programmes from various annual income groups during 2017-2018 - 1st Year

Sl. No.	STATE	Upto Rs. 1,00,000.00	Rs. 1,00,000.00 To Rs. 5,00,000.00	Above Rs. 5,00,000.00	TOTAL
1	Andhra Pradesh	27	9	15	51
2	Arunachal Pradesh	0	0	0	0
3	Assam	3	2	1	6
4	Bihar	27	28	19	74
5	Chattishgarh	0	2	1	3
6	Delhi	0	1	1	2
7	Chandigarh	0	0	0	0
8	Goa	0	0	0	0
9	Gujarat	1	1	1	3
10	Haryana	0	1	2	3
11	Himachal Pradesh	0	0	0	0
12	Jammu & Kashmir	0	0	0	0
13	Jharkhand	9	5	7	21
14	Karnataka	0	1	0	1
15	Kerala	0	2	1	3
16	Madhya Pradesh	1	2	1	4
17	Maharashtra	3	3	5	11

Sl. No.	STATE	Upto Rs. 1,00,000.00	Rs. 1,00,000.00 To Rs. 5,00,000.00	Above Rs. 5,00,000.00	TOTAL
18	Manipur	0	0	1	1
19	Meghalaya	0	0	0	0
20	Mizoram	0	1	0	1
21	Nagaland	0	0	0	0
22	Odisha	0	0	5	5
23	Punjab	0	0	0	0
24	Rajasthan	8	11	7	26
25	Poducheri	0	0	0	0
26	Sikkim	0	0	0	0
27	Tamil Nadu	0	0	1	1
28	Telengana	13	4	13	30
29	Tripura	0	0	0	0
30	Uttar Pradesh	33	25	27	85
31	Uttaranchal	0	1	2	3
32	Uttarakhand	0	0	0	0
33	West Bengal	56	106	155	317
34	Andaman & Nicobar	2	5	1	8

11.8.(c)4. The number of candidates admitted to B.Tech & M.Tech Dual Degree programme from various annual income groups during 2017-2018 - 1st Year

Sl. No.	STATE	Upto Rs. 1,00,000.00	Rs. 1,00,000.00 To Rs. 5,00,000.00	Above Rs. 5,00,000.00	TOTAL
1	Andhra Pradesh	0	0	0	0
2	Arunachal Pradesh	0	0	0	0
3	Assam	0	0	0	0
4	Bihar	0	1	0	1
5	Chattishgarh	0	0	0	0
6	Delhi	0	0	0	0
7	Chandigarh	0	0	0	0
8	Goa	0	0	0	0
9	Gujarat	0	0	0	0
10	Haryana	0	0	0	0
11	Himachal Pradesh	0	0	0	0
12	Jammu & Kashmir	0	0	0	0
13	Jharkhand	0	0	0	0
14	Karnataka	0	0	0	0
15	Kerala	0	0	0	0
16	Madhya Pradesh	0	0	0	0
17	Maharashtra	0	0	0	0
18	Manipur	0	0	0	0
19	Meghalaya	0	0	0	0
20	Mizoram	0	0	0	0
21	Nagaland	0	0	0	0
22	Odisha	0	0	0	0
23	Punjab	0	0	0	0
24	Rajasthan	0	0	0	0
25	Poducheri	0	0	0	0
26	Sikkim	0	0	0	0
27	Tamil Nadu	0	0	0	0

Sl. No.	STATE	Upto Rs. 1,00,000.00	Rs. 1,00,000.00 To Rs. 5,00,000.00	Above Rs. 5,00,000.00	TOTAL
28	Telengana	0	0	0	0
29	Tripura	0	0	0	0
30	Uttar Pradesh	3	0	0	3
31	Uttarakhand	0	0	0	0
32	West Bengal	0	1	3	4
33	Andaman & Nicobar	0	0	0	0

11.8.(c)4. The number of candidates admitted to Integrated M. Sc. Programme from various annual income groups during 2017-2018 - 1st Year

Sl. No.	STATE	Upto Rs. 1,00,000.00	Rs. 1,00,000.00 To Rs. 5,00,000.00	Above Rs. 5,00,000.00	TOTAL
1	Andhra Pradesh	1	0	0	1
2	Arunachal Pradesh	0	0	0	0
3	Assam	0	1	0	1
4	Bihar	0	1	1	2
5	Chattishgarh	0	0	0	0
6	Delhi	0	0	0	0
7	Chandigarh	0	0	0	0
8	Goa	0	0	0	0
9	Gujarat	0	0	0	0
10	Haryana	0	0	0	0
11	Himachal Pradesh	0	0	0	0
12	Jammu & Kashmir	0	0	0	0
13	Jharkhand	0	0	0	0
14	Karnataka	0	0	0	0
15	Kerala	0	0	0	0
16	Madhya Pradesh	0	0	0	0
17	Maharashtra	0	0	0	0
18	Manipur	0	0	0	0
19	Meghalaya	0	0	0	0
20	Mizoram	0	0	0	0
21	Nagaland	0	0	0	0
22	Odisha	0	0	0	0
23	Punjab	0	0	0	0
24	Rajasthan	2	0	0	2
25	Poducheri	0	0	0	0
26	Sikkim	0	0	0	0
27	Tamil Nadu	0	0	0	0
28	Telengana	0	0	0	0
29	Tripura	0	0	0	0
30	Uttar Pradesh	0	0	3	3
31	Uttarakhand	0	0	0	0
32	West Bengal	0	2	2	4
33	Andaman & Nicobar	0	0	0	0

11.8.(c)5. The details of admission to the PG programmes during 2017-2018-1st Year

Department	PG Program	OPEN	OBC	SC	ST	TOTAL
Physics	Advanced Material Science & Technology	8	4	2	1	15
Biotechnology	Biotechnology	8	1	3	0	12
Chemical Engineering	Chemical Engineering	5	0	1	0	6
Computer Science & Engineering	Computer Science & Engineering	8	4	2	1	15
Humanities and Social Sciences (Coordinating)	Entrepreneurship and Innovations	8	3	0	1	12
Earth and Environmental Studies (Coordinating)	Environmental Science & Technology	8	4	2	1	15
Mechanical Engineering	Fluid Mechanics and Heat Transfer	8	4	2	1	15
Civil Engineering	Geotechnical Engineering	7	5	2	0	14
Computer Science & Engineering	Information Technology	7	0	0	1	8
Mechanical Engineering	Machine Design	8	4	2	0	14
Metallurgical and Materials Engineering	Metallurgy and Materials Technology	8	3	1	0	12
Electronics and Communication Engineering	Microelectronics & VLSI	8	4	3	1	16
Mathematics	Operations Research	8	4	2	0	14
Electrical Engineering	Power Electronics & Machine Drives	8	5	2	0	15
Electrical Engineering	Power Systems	8	5	1	1	15
Computer Science & Engineering	Software Engineering	7	0	1	0	8
Civil Engineering	Structural Engineering	8	4	3	1	16
Electronics and Communication Engineering	Telecommunication Engineering	7	0	2	0	9
Mechanical Engineering	Thermal Engineering	8	4	3	1	16
	Total M. Tech.	**145**	**58**	**34**	**10**	**247**
Chemistry	MSC in Chemistry	5	4	2	2	13
Physics	MSC in Physics	9	5	3	0	17
Mathematics	MSC in Mathematics with Computer Applications	6	5	1	0	12
Humanities and Social Sciences	Masters in Social Work	7	3	1	1	12
Management Studies	MBA	19	5	5	0	29
Computer Science and Engineering	MCA	16	8	6	2	32
	Total Admission					**362**

11.9(b) Awards during 2017-18

Department of Chemical Engineering

1. Dr. G. Halder, Young Research Scientist Award-EET CRS 5th Faculty Branding Awards-17, Education Expo, New Delhi

Department of Computer Science and Engineering

1. Kisku, D. R. is a recipient of Certificate of Outstanding Contribution in Reviewing conferred by Computers and Electrical Engineering, Elsevier, Amsterdam, Netherlands, November 2017.
2. Kisku, D.R. is a recipient of Albert Nelson Marquis Lifetime Achievement Award conferred by Marquis, USA for the year 2018.

3. Kisku, D.R. is a recipient of Outstanding Scientist Award conferred by Centre for Advanced Research and Design, Venus International Foundation for the year 2017.

Department of Electronics and Communication Engineering

1. Dr. A. Chandra received one month fellowship to visit Slovak University of Technology, Bratislava, Slovakia under the National Scholarship Programme of the Slovak Republic (NSP) funded by the Ministry of Education, Science, Research and Sport of the Slovak Republic.

Annexure–11.10 (a) Vocational training

Sl. No.	NAME OF THE COMPANY	Sl. No.	NAME OF THE COMPANY
1	D.V.C. Mejia	36	D.E. SHAW, Hyderabad
2	BSNL, Kolkata	37	TATA CUMMINS PVT. LTD
3	ECI, Bankola	38	IBM, Bangalore
4	Railway Liluah Workshop, Kolkata	39	Microsoft R&D
5	HMT Ranchi	40	Belzabar, Noida
6	SAIL-D.S.P.	41	Bokaro Steel Plant, Bokaro
7	N.T.P.C., Farakka	42	N.I.C Delhi
8	W.B.P.D.C.L.	43	TATA POWER, Pune
9	L&T INFOTECH	44	HAL Sunabeda
10	C.E.S.C.	45	C.L.W Chittaranjan
11	CCMB (HYDERABAD)	46	HPL
12	Maq Software, Hyderabad	47	Idea Cellular
13	VERSE (BANGALORE)	48	Reliance Industries
14	PERVACIO	49	Haldia Petrochemical
15	O.N.G.C.	50	Honda Cars
16	M.N. DASTUR & COMPANY (P) LTD	51	Reliance Jio
17	TATA MOTORS LTD.	52	JSL, Jajpur, Odisha
18	TATA STEEL LTD.	53	Schneider Electric
19	BRIDGE & ROOF COMPANY (INDIA)LTD	54	Ashok Leyland
20	SAIL – Bhilai Steel Plant	55	Fiat Automobiles
21	BARAUNI REEINERY TRAINING & DEVELOPMENT CENTRE	56	Aircell, Kolkata
22	Globsyn Skills and Development	57	LPG Recovery Plant, Gujarat
23	Oracle FSS	58	Tata Consulting Services, Kolkata
24	ACC	59	ESSAR OIL &GAS, Mumbai
25	BHEL, Hardwar	60	BCCL. Dhanbad
26	IOCL	61	EXIDE, Kolkata
27	Metro Railway, Kolkata	62	Hindustan Zinc Limited, Udaipur
28	Hyundai Motor	63	TML Drive lines Limited
29	L & T, SURAT	64	Verse Innovation Private Limited
30	Alloy Steels Plant, Durgapur	65	Shapoorji and Palonji, Kolkata
31	VIZAG STEEL PLANT		
32	MARUTI SUZUKI INDIA LTD		
33	Hero Motor Corp		
34	DMRL (HYDERABAD)		
35	DRDO (HYDERABAD)		

Annexure–11.10(b) Placement statistics during 2017 – 2018

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
			B.Tech									
			BT	CHE	CE	CSE	ECE	EE	IT	ME	MME	TOTAL
Sharing slot												
1	TCS	11 & 12.10.2017	7	3	1	16	11	9	11	14	7	79
2	IBM	20 & 21.10.2017	-	-	-	1	6	9	3	-	-	19
Branch wise Core Sector												
1	Direct I	13 & 18.07.2017	0	-	0	0	0	0	1	-	0	1
2	Endurance	14.07.2017	-	-	-	0	0	0	1	-	-	1
3	Amazon	15 & 20.04.2017	-	-	-	4	0	0	2	-	-	6
4	D. E. Shaw	PPO	-	-	-	1	0	0	0	-	-	1
5	Saint Gobain	PPO	-	1	0	-	-	-	-	0	-	1
6	CESC	PPO	-	-	-	-	-	1	-	0	-	1
7	Thermax	PPO	-	-	-	-	-	-	-	1	-	1
8	Microsoft	PPO	-	-	-	2	0	0	1	-	-	3
9	Qualcomm	16 & 17.07.2017	-	-	-	6	1	0	-	-	-	7
10	Yodlee	25 & 26.07.2017	-	-	-	2	-	-	2	-	-	4
11	Factset	27 & 28.07.2017	-	-	-	1	1	-	3	-	-	5
12	Capgemini	29.07, 01.08.2017	0	1	0	2	7	2	2	1	1	16
13	Futures First	31.07, 04.08.2017	0	0	1	0	0	0	0	0	0	1
14	PWC	02&04.08.2017	-	-	-	2	1	1	1	4	-	9
15	Goldman Sachs	03 & 04.08.2017	-	-	-	0	0	0	2	-	-	2
16	Bajaj Auto	03 & 09.08.2017	-	-	-	-	-	-	-	3	-	3
17	Techracers	05.08.2017	-	-	-	0	0	0	0	-	-	0
18	Hero Motocorp	05.08.2017	-	-	-	-	-	-	-	1	-	1
19	Oracle Application	07 & 09.08.2017	-	-	-	3	0	0	2	-	-	5
20	ZS Associates	11.08 & 4.9.2017	1	1	0	1	2	0	0	0	1	6
21	Sun Pharma	11 & 24.08.2017	-	0	-	-	-	0	-	0	-	0
22	Mu Sigma	14 & 22.08.2017	-	-	-	1	8	2	3	-	-	14
23	Tata Metaliks	16 & 17.08.2017	-	-	-	-	-	1	-	0	0	1
24	Shapoorji Pallonji	21.08.2017	-	-	1	-	-	-	-	-	-	1
25	Larsen & Toubro	21 & 23.08.2017	-	3	3	-	1	2	-	11	-	20
26	Intellect Design	24.08.2017	-	-	-	6	-	-	3	-	-	9
27	MAQ Software	24.08& 5.9.2017	-	-	-	2	-	-	2	-	-	4
28	Tredence	28 & 29.08.2017	0	1	1	0	0	0	0	1	0	3
29	L&T ECC	29 & 30.08.2017	-	-	16	3	0	7	6	9	-	41
30	Mphasis	29 & 30.08.2017	1	-	0	1	0	0	0	1	-	3
31	Wipro	31.08.2017	-	-	-	7	8	2	13	-	-	30
32	Halftick	01.09.2017	0	0	0	0	0	0	0	0	0	0
33	Ashok Leyland	01.09.2017	-	-	-	-	-	2	-	5	-	7
34	M. N. Dastur	04.09.2017	-	-	1	-	-	0	-	1	0	2
35	OFSS	06& 15.09.2017	-	-	-	0	2	0	2	0	-	4
36	Analytics Quotient	08.09.2017	0	0	0	2	0	0	0	1	1	4

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
			B.Tech									
			BT	CHE	CE	CSE	ECE	EE	IT	ME	MME	TOTAL
37	Saint Gobain	12.09.2017	-	0	0	-	-	-	-	0	-	0
38	Axis Bank	13& 14.09.2017	1	2	0	0	2	0	1	0	0	6
39	TCS (R&I)	15.09.2017	-	-	-	0	0	0	0	0	-	0
40	Adobe Systems	04.10.2017	-	-	-	0	0	-	0	-	-	0
41	J. P. Morgan	04 & 05.10.2017	-	-	-	2	0	1	3	-	-	6
42	C-Dot	05 & 06.10.2017	-	-	-	2	3	-	-	-	-	5
43	Mahindra Comviva	06.10.2017	-	-	-	2	0	-	4	-	-	6
44	Virtusa	11.10.2017	-	-	-	0	0	0	1	-	-	1
45	Fortitude	14.10.2017	1	0	0	0	0	0	0	0	0	1
46	Linde	24.10.2017	-	4	-	-	-	2	-	3	-	9
47	Tata Motors	25.10.2017	-	-	-	-	-	3	-	4	-	7
48	Verizon	25 & 27.10.2017	-	-	-	1	2	-	1	-	-	4
49	KPIT	02 & 24.11.2017					1	2				3
50	Keste Software	06.11.2017	-	-	-	0	1	0	3	-	-	4
51	Reliance Industries	08 & 16.11.2017	-	8	-	-	-	-	-	-	-	8
52	Aakash Institute	08 & 11.11.2017	0	0	0	0	0	0	0	1	0	1
53	PlaySimple	09 & 14.11.2017	0	0	0	1	0	0	0	0	0	1
54	Cummins India	10 & 13.11.2017	-	-	-	-	-	-	-	0	-	0
55	Cognizant	10 & 18.11.2017	-	-	-	3	-	2	3	-	-	8
56	Mahindra & Mahindra	15 & 22.11.2017	-	-	-	0	-	0	-	0	0	Pending
57	Tata Tinplate	27.11.2017	-	1	-	-	0	1	-	2	1	5
58	Vedanta	30.11.2017	-	5	-	-	-	4	-	5	12	26
59	Wacker	01 & 07.12.2017	-	-	-	-	-	-	-	1	-	1
60	Samsung R&D	04 & 05.12.2017	-	-	-	0	1	-	1	-	-	2
61	Sokrati	05.12.2017	0	0	0	0	0	0	0	0	0	0
62	Sankalp Semiconductor	08.12.2017	-	-	-	-	0	0	-	-	-	0
63	Pathfinder	11.12.2017	1	0	0	0	0	1	0	0	1	3
64	Pradan	12 & 13.12.2017	7	2	0	0	0	0	0	1	1	11
65	Intas Pharmaceuticals	13 & 18.12.2017	4	-	-	-	-	-	-	-	-	4
66	Haldia Petrochemicals	15.12.2017	-	3	-	-	-	-	-	0	-	3
67	Ola Cabs	15.12.2018	-	-	-	0	-	-	-	-	-	0
68	Tejas Networks	18.12.2017	-	-	-	2	0	-	0	-	-	2
69	Tractors India	20.12.2017	-	-	-	-	-	2	-	8	-	10
70	Darwin Labs	20 & 27.12.2017	-	-	-	0	0	0	0	-	-	0
71	Reliance Jio (R&D)	21.12.2017	-	-	-	4	-	-	1	-	-	5
72	Resonance	26.12.2017	1	0	0	0	0	0	1	0	2	4
73	Nuvoco	27.12.2017	-	1	-	-	-	2	-	3	-	6
74	Godrej	28.12.2017	-	-	0	-	-	-	-	0	-	0
75	JSL	02.01.2018	-	1	-	-	-	3	-	2	3	9

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
			B.Tech									
			BT	CHE	CE	CSE	ECE	EE	IT	ME	MME	TOTAL
76	Reliance Jio (Net)	04.01.2018	-	-	-	2	2	-	-	-	-	4
77	HSBC	06 & 08.01.2018	1	0	0	0	0	0	0	0	0	1
78	Eveready	06.01.2018	-	0	-	-	-	-	-	0	-	0
79	Gyansetu	09.01.2018	1	0	0	0	0	0	0	0	0	1
80	Glocal Health	10.01.2018	-	-	-	1	1	-	0	-	-	2
81	Suez Water	11.01.2018	-	1	-	-	-	-	-	0	-	1
82	Anglo Eastern	12.01.2018	-	-	-	-	0	0	-	1	-	1
83	Dxcorr	13.01.2018	-	-	-	-	1	1	0	-	-	2
84	Simplex	17.01.2018	-	-	6	-	-	-	-	-	-	6
85	Matix	18.01.2018	-	2	-	-	-	-	-	-	-	2
86	Tata Hitachi	18.01.2018	-	-	-	-	-	-	-	0	-	pending
87	IOCL	21 & 22.01.2018	-	-	-	-	-	5	-	5	-	10
88	Accenture	23.01.2018	-	-	-	4	2	0	0	-	-	6
89	BPCL	29 & 31.01.2018	-	1	-	-	-	1	-	1	-	3
90	PCTL	06 & 07.02.2018	-	-	6	-	-	-	-	3	-	9
91	Azim Premji	13.02.2018	0	0	1	0	0	0	0	0	0	1
92	M-Junction	13 & 14.02.2018	-	-	-	0	2	-	1	-	-	3
93	IPCL	19 & 21.02.2018	-	-	-	-	-	1	-	0	-	1
94	RAO IIT	24.02.2018	0	0	0	0	0	0	0	0	0	0
95	Jacobs	10.03.2018	-	0	-	-	-	0	-	0	-	0
96	Afcons	22.03.2018	-	-	0	-	-	-	-	-	-	0
97	J.P. Research	15.03.2018	0	-	-	-	-	0	0	0	0	0
98	KPTL	16.03.2018	-	-	0	-	-	-	-	-	-	0
99	FIITJEE	29 & 30.03.2018	0	0	0	0	0	1	0	0	0	1
100	Valued Epistemics	31.03.2018	0	0	0	1	0	0	0	0	0	1
101	EWS	04.04.2018	0	0	1	0	0	0	0	0	1	2
102	Amdocs	07 & 08.04.2018	-	-	-	0	0	-	0	-	-	0
103	JSW	09.04.2018	-	1	-	-	-	1	-	2	2	6
104	BEL	10 & 11.04.2018	-	-	-	0	3	-	-	3	-	6
105	SMS India	12.04.2018	-	1	-	-	-	-	-	0	-	1
106	Alpha-Numero	14.04.2018	-	-	-	0	0	-	-	-	-	Pending
107	ITD Cementation	14.04.2018	-	-	1	-	-	-	-	-	-	1
108	Elegantship	27.04.2018	-	-	-	-	-	-	-	0	-	Pending
109	Denso	09.05.2018	-	-	-	-	-	2	-	3	-	5
110	JSPL	19.06.2018	-	2	-	-	-	-	-	-	-	2
111	Nirsan Connect	20.06.2018	0	0	0	0	0	0	0	0	1	1
Eligible Students			**69**	**52**	**52**	**95**	**87**	**86**	**80**	**112**	**63**	**696**
Total Placed			**25**	**42**	**38**	**76**	**60**	**61**	**72**	**87**	**30**	**491**
Percentage Placed			**36.23**	**80.77**	**73.08**	**80.00**	**68.97**	**70.93**	**90.00**	**77.68**	**47.62**	**70.55**
Total Job Offered			**27**	**45**	**40**	**88**	**69**	**72**	**80**	**101**	**34**	**556**
Double Jobs			**2**	**3**	**2**	**12**	**9**	**11**	**8**	**14**	**4**	**65**

PG-PLACEMENT RECORDS (2017-18)

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)																			
			M.Tech, Specialization																			
			CC	ECE	EE	ME	CE	CHE	BT	MME	CA						MATH	PHY	CSE	IT	EES	TOTAL
			HPC	TEL	VLSI	PE	PS	MD	FM	TE	GE	SE	CHE	BT	MMT	SE	OR	AMST	CSE	IT	EST	
Sharing Slot																						
1	TCS	11 & 12.10.2017	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	6
2	IBM	20.10.2017	-	0	0	-	-	-	-	-	-	-	-	-	-	1	-	-	0	0	-	1
Branch Wise Core Sector																						
1	DIRECTI	13 & 18.07.2017	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	0	1	-	1
2	ENDURANCE	14.07.2017	0	0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
3	AMAZON	15, 19 & 20.04.2017	0	0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
4	QUALCOMM	16 & 17.07.2017	0	0	1	0	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	1
5	FACTSET	27 & 28.07.2017	0	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	1	1	-	2
6	CAPGEMINI	29.07, 01.08.2017	0	0	0	0	0	0	0	0	-	-	0	-	0	0	0	0	1	-	-	1
7	PWC	02, 03 & 04.08.2017	0	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
8	ORACLE APPLICATION	07 & 09.08.2017	0	0	0	0	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
9	MICROSOFT	08.08.2017	0	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
10	L&T POWER	21, 22 & 23.08.2017	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	0
11	MAQ SOFTWARE	24.08.2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	-	1
12	L&T ECC	29 & 30.08.2017	-	-	-	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	0	0
13	COGNIZANT	10 & 18.11.2017	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	0	0	-	1
14	CUMMINS INDIA	10 & 13.11.2017	-	-	-	-	-	0	0	1	-	-	-	-	-	-	-	-	-	-	-	1

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)																		
			M.Tech, Specialization																		
			CC	ECE	EE	ME	CE	CHE	BT	MME	CA						MATH	PHY	CSE	IT	EES	TOTAL
			HPC	TEL	VLSI	PE	PS	MD	FM	TE	GE	SE	CHE	BT	MMT	SE	OR	AMST	CSE	IT	EST	
15	VEDANTA	30.11.2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
16	SANKALP SEMI-CONDUCTOR	08.12.2017	-	0	2	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
17	PATHFINDER	11.12.2017	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
18	INTAS	13, 15 & 18.12.2017	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3
19	TEJAS NETWORKS	18.12.2017	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1	-	1
20	RESONANCE	26.12.2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	DXCORR	13.01.2018	-	0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	4
22	WIPRO	01 & 02.02.2018	-	0	0	0	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0
23	PARUL UNIVERSITY	24, 29.01.2018	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	0	0	-	P
24	AZIM PREMJI	13.02.2018	-	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	-	-	-	0
25	C. V. RAMAN	25 & 26.02.2018	1	0	0	1	1	1	0	4	0	1	0	-	-	1	-	-	1	0	1	13
26	S. R. PATEL		-	-	-	-	-	0	0	0	0	0	-	-	-	-	-	-	0	-	-	P
27	GATE ACADEMY	15.02.2018	-	-	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	-	P
28	STELLARIX	22.05.2018	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Strength			**8**	**18**	**18**	**17**	**15**	**12**	**17**	**16**	**15**	**13**	**12**	**22**	**9**	**10**	**8**	**8**	**17**	**11**	**16**	
Total Placed			**2**	**1**	**7**	**1**	**1**	**1**	**0**	**6**	**0**	**1**	**0**	**3**	**0**	**3**	**0**	**0**	**8**	**3**	**3**	
Total Job Offered			**2**	**1**	**7**	**1**	**1**	**1**	**0**	**6**	**0**	**1**	**0**	**3**	**0**	**3**	**0**	**0**	**9**	**3**	**3**	

NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

PLACEMENT RECORDS

MCA: 2017-18

[0- Considered but not selected]

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED
1	DIRECTI	13 & 18.07.2017	0
2	AMAZON	15, 19 & 20.04.2017	0
3	TECHRACERS	05.08.2017	0
4	MICROSOFT	08.08.2017	0
5	INTELLECT DESIGN	24.08.2017	4
6	MAQ SOFTWARE	24.08 & 06.09.2017	1
7	MPHASIS	29 & 30.08.2017	0
8	OFSS	06 & 15.09.2017	4
9	J.P. MORGAN	04 & 05.10.2017	2
10	TCS	11 & 12.10.2017	5
11	IBM	20.10.2017	0
12	KESTE SOFTWARE	06.11.2017	1
13	M-JUNCTION	13 & 14.02.2018	1
14	THERMAX	05 & 07.03.2018	1
15	AMDOCS	07 & 08.04.2018	1
16	MAHINDRA COMVIVA	02.05.2018	1
	Eligible Students		**70**
	Total Placed		**21**
	Total Job Offered		**21**

NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

PLACEMENT RECORDS

MBA: 2017-18

Sl. No.	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED
1	PATHFINDER	11.12.2017	1
2	PWC	16.01.2018	2
3	FEDERAL BANK	30.01.2018	1
4	BLUE COLD REFRIGERATOR	15.02.2018	3
5	BIRLA CEMENT	20.03.2018	2
6	TRUCKHALL	04.04.2018	1
	Eligible Students		**19**
	Total Placed		**9**
	Total Job Offered		**10**

Annexure – 11.11(a) Non-Plan grant

Non-Plan Grant received in 2017-2018 – Rs. 7741.00 lakhs.

Annexure – 11.11(b) Plan grant

Plan (General) Grant received in 2017-2018 – Rs. 9193.00 lakhs

Annexure – 11.11(c) Sources of grants

Till Financial year 2002-03

Share of Recurring Expenditure were borne by Government of India and Government of West Bengal in 50:50 basis.

From financial year 2003-04 onward

Entire Recurring and Non-Recurring Grants are borne by Govt. of India.

Annexure – 11.11(d) Expenditure Position for Last Few Years

(Rupees in lakhs)

Plan head Expenditure		Non-Plan head Expenditure	
2012-13	4050.00	2012-13	6101.14
2013-14	5058.03	2013-14	7296.61
2014-15	2495.36	2014-15	7573.72
2015-16	4750.82	2015-16	8092.35
2016-17	2570.46	2016-17	11188.98
2017-18	1425.36	2017-18	12423.47

Plan head Expenditure in 2017-18 (unaudited) – Rs 1425.36 lakhs

Non-Plan head Expenditure in 2017-18 (unaudited) – Rs 12423.47 lakhs (including depreciation)

Annexure 11.12(a) Construction work completed/ in progress during the year 2014-15 (Plan grant project)

1. 500+ seated Girls' Hostel is inaugurated and the students are allotted to that hostel.
2. New Guest House is inaugurated and in under operation
3. Academic Block has also been inaugurated and 4 number 150 seated auditorium are in use for 1st year students. All other auditoriums and class rooms will be ready by the end of this month.
4. Renovation of toilet is completed except one.
5. 1250 seated Boys' Hostel is under construction. Internal as well as external finishing work is in progress. Expected to be completed by the end of this year.
6. Raising of Boundary wall of campus with peripheral road is in progress.
7. Civil work of 1500 seated auditorium is completed. Electrical work is in progress.
8. Renovation of old hostels and residential quarters has not been started.
9. Extension of dining halls of three hostels 1, 2 and 5 is completed and is under use.
10. External and Internal Paintings of Halls 1 to 9 is almost completed.

Annexure – 11.13 List of Laboratories

Department	Laboratories
Biotechnology	Biochemistry, Microbiology, Bioinformatics, Molecular Biology & rDNA Technology, Immunology, Fermentation Technology, Bioseparation Technology, Bioprocess Engineering, Plant Biotechnology, Food Biotechnology
Chemical Engineering	Heat Transfer Lab, Mass Transfer Lab, Fluid Flow Lab, Mechanical Operations Lab, Environmental and Membrane Technology Lab, Computing Lab, Energy Lab, Adsorption Lab, Chemical & Bio-Chemical Reaction. Engg. Lab, Process Control Lab, Combustion Engineering Lab, Multi-phase Flow Lab, Process Modelling & Simulation Lab, Central Research Laboratory, Process Equipment Design Lab, Thermo-fluid laboratory
Chemistry	Electrochemical Laboratory, PG (M.Sc.) Laboratory, UG (B.Tech.) Laboratory, Synthesis & Analytical Laboratory, Inorganic Synthesis and Environmental Laboratory, Natural Product & Biological Chemistry Laboratory, Bio-molecular Modelling Laboratory, Instrumentation Laboratory -1, Instrumentation Laboratory -2, Computer Laboratory cum Library
Civil Engineering	Concrete and Structure Laboratory, Highway Engineering Laboratory, Surveying Laboratory, Environmental Engineering Laboratory, Soil Mechanics Laboratory, Water Resources Engineering Laboratory, Exciter and FFT analyser for Earthquake Laboratory, SHM Laboratory
Computer Science & Engineering	Advanced Software Engineering, Compiler, Operating System and Computer networking Laboratory, Data Structure and Database Laboratory, Microprocessor laboratory
Earth and Environmental Studies	Environmental Laboratory-I, Environmental Laboratory-2, Research Laboratory, Computer Laboratory, Geology Laboratory, Instrument Laboratory, Contaminant Transport Laboratory
Electrical Engineering	Electrical Technology Lab, Network Laboratory, Electrical & Electronics Measurement Lab, Electrical Machines Lab, Power Electronics Lab, Power Systems Lab, High Voltage Engg Lab, Control Systems Lab, Advanced Power Electronics Lab, Advanced Power Systems Lsab, Advanced Control Systems Lab, Process Instrumentation Lab, Digital Signal Processing Lab, Embedded Systems Lab, Computation Lab
Electronics & Communication Engineering	Electronics Circuit Lab, Network Lab, VLSI Lab, Digital Electronics Lab, Communication Lab, Industrial Electronics Lab, Instrumentation Lab, Microprocessor Lab, Computer architecture Lab, Microwave Lab, PCB Lab, Microwave and Antenna Research Laboratory, Microwave Component Design Laboratory,Advanced Communication Lab (for PG)
Mathematics	Computer Laboratory
Mechanical Engineering	Automobile Laboratory, CAD /CAM Laboratory, CFD Laboratory, Fluid Mechanics & Hydraulic Machines Laboratory, Heat Power Laboratory, Machine Computation & Computer Graphics Laboratory, Machine Dynamics Laboratory, Manufacturing Science Laboratory, Metrology Laboratory, Production Engg. Lab. Robotics & AI Laboratory, Simulation Laboratory, Thermal Energy Laboratory.
Metallurgical & Materials Engineering	Computer Application in Metallurgical Process Laboratory for UG, Computer Application in Metallurgical Process Laboratory for PG, Chemical Analysis Laboratory, Foundry Laboratory, Heat Treatment Laboratory, Mechanical Testing Laboratory, Metallography and Phase Transformation Laboratory, Thermodynamics of Materials Laboratory, Process Metallurgy Laboratory, Electrometallurgy and Corrosion Laboratory, X-ray Diffraction and Thin Film Laboratory, Nanomaterials and Composites Laboratory
Central Instrumentation Facility	Scanning Electron Microscope with EDS, X-Ray Diffractometer, Nd:YAG Laser Unit, Spectrum Analyzer
Physics	Nanoscience Laboratory, Materials Science Laboratory, X-ray Diffraction Laboratory, Low Temperature Characterization Laboratory, Laser Laboratory, Electronics Laboratory, Carbon Nanotechnology Laboratory, Optical sensor laboratory
Management Studies	Systems Lab

Annexure-11.14 Technical Education Quality Improvement Programme (TEQIP)

Life time of TEQIP-II was extended finally till March 2017 with an additional funding due to well performance to achieve the project target as mentioned in Institutional development proposal. The Institute has modernized or substantiate with large number of equipment for strengthening PG and research laboratories with a funding of 704.13 lakhs under TEQIP II. Finally, the Institute has spent Rs. 1524.45 lakhs under different activities of TEQIP II and Rs. 148 lakhs under the head of "Modernizing NITs" for strengthening UG laboratories and developing 22 smart class rooms and 3 virtual class rooms. Most of the research scholars under TEQIP II will be submitting the thesis within 2017.

A Centre of Excellence (COE) on "Advanced Materials", a multi-disciplinary research centre with participation from Departments of Physics and Metallurgical Engineering in TEQIP-II has successfully completed the scheduled activities. The total expenditure of COE for different activities is Rs. 514.2 lakhs out of which Rs. 284.6 lakhs has been spent for strengthening research laboratories with sophisticated analytical Instruments. 5 research scholars under COE pursuing doctoral programme are expected to complete by 2018.

Annexure-11.15 Alumni

Centre for Alumni Affairs & International Relations (CAAIR)

The Centre for Alumni Affairs & International Relations (CAAIR) is functioning at the Institute as a nodal centre for maintaining liaison with NIT Durgapur Alumni all across the globe and to involve them in the all-round development and growth of the Institute. NIT Durgapur is proud to have as its Alumni a group of over 25000 Engineers, Technocrats, Scientists, managers and Entrepreneurs. They are our global brand ambassadors. This office promotes and encourages the Alumni to exchange professional knowledge by undertaking and facilitating seminar, lectures and meeting amongst Alumni, students, faculty and others. The office is also entrusted with developing institutional partnership and collaboration with other organization such as universities in India and abroad, academic and research institutes and industries.

The Alumni cell shall have the following broadly identified objectives:

- To establish and maintain contact with Alumni.
- To promote and strengthen engagement, research collaborations and consultancy relationships among students, Alumni and institute.
- To strengthen Industry-Institute-Interaction through our Alumni for the benefit of the students.
- To establish endowments by contribution to extend financial and other assistance to deserving present students and alma maters for educational, research and development purposes.
- To provide common platform for exchange of ideas and disseminating knowledge in Professional area.
- To provide common platform where alumni can submit their accomplishments in the Alumni achievement section.
- To support alumni networking activities and events such as reunions for mutual benefit of the alumni and present students.
- To support Pan NIT activities.
- To perform any other constructive activities leading towards the enhancement of the internship and employment opportunities.

Fund raised: 2.5 lakhs in last 04 months

Centre for Alumni Affairs & International Relations (CAAIR) has started an Eminent Alumni Lecture series by distinguished alumni member from Industry, R&D, and academia. We have many alumni members who are doing exceedingly well in academia, research, industries, entrepreneurship and other areas. In line with our objective of giving back to our beloved alma mater, we like to share knowledge and wisdom of these eminent alumni members with the students and faculty. Initially, the lecture series is being delivered in person. We may plan this lecture through conferencing so that we may induct people particularly from abroad.

Eminent Alumni Lecture

Sl. No.	Date	Speaker	Topics
1	05.02.2018	SubhashPati	Materials Technology for Long Term Reliability of Pulp & Paper Mill Process Equipment
2	22.02.2018	SubhasSamanta	Role of Indian Yoga & Meditation for Engineering Profession
3	17.03.2018	Das Ajee Kamath	RVCR-The Evolutionary leap in Kinematic Mechanism leading to the birth of New age Machines
4	20.03.2018	Jyoti Prasad Bhattacharya	Entrepreneurship a career Choice for Engineers
5	14.04.2018	SukantaMitra	Startup- more of a mind than company or business
6	19.04.2018	SwayamdiptaBhaduri	Tiny Bacteria can Solve a Mega Problem: A Green Solution to Global Warming
7	04.05.2018	Dilip Kumar Pratihar	Role of Computational Intelligence in Robotics Research

Establishment of Asoke Sen Design & Innovation Centre

Asoke Sen Design & Innovation Centre has beenestablished in the name of Legendary Professor Late Asoke Sen (Former Faculty, Department of Mechanical Engineering, R. E. College Durgapur) in NIT Durgapur which is fully funded by Alumni of this Institute, to promote the culture of innovation among a wide cross section of students and faculty.

The centre will have the following specific objectives:

- To promote and enhance culture of interdisciplinary design-focused innovation and creativity among students.
- To serve as a place that imparts design based education and practice systematic design through projects.
- To help the students with facilities and administrative support to develop innovative ideas into industrial products.
- To create an ecosystem facilitating students and faculty to take their innovative ideas from class rooms/labs to people.
- To facilitate interdisciplinary design-focused education, research and entrepreneurial activities in order to build partnerships between academics and industry.
- To promote increased interaction and collaborations with institute and R&D organizations world-wide working in the areas of design and innovation.
- To promote, nature and advance the culture of design and innovation in the country leading to significant contributions and breakthroughs impacting quality of human living.
- To develop facilities for fabrication, testing and optimization of prototypes.
- To develop low cost rural technologies to make value additions of rural resources for self-sustainable livelihood and inclusive economic growth including employment generation.
- To conduct training programmes in the related areas for professional skill development.
- To educate our budding engineers on product design and development technologies and specialized skills development by way of conducting workshops, seminars, awareness programs, short term courses and formal or non-formal interactions from time-to-time.
- To Generate Intellectual Properties (IP) in terms of patents and high quality technical publications.
- To constitute a working group of innovators comprising academicians, scientists, Alumni and industry stakeholders, traditional craftsmen and artisans, and social entrepreneurs

NIT Durgapur Students Alumni Cell is a voluntary student body working under the aegis of the Dean (Alumni Affairs and Outreach). This Alumni cell is an integral organ of Centre for Alumni Affairs & International Relations, which is completely dedicated towards fostering the bond between students and alumni and has acted as a common platform for networking and interaction. The Cell helps the alumni in staying connected to their alma mater. Through regular interactions with the students, the alumni get a chance to share their experiences and impart the knowledge they have acquired to the next generation of NITDians. Also, with this interchange, they get a glimpse of the young minds of the nation.

This Student Alumni cell under CAAIR has been instrumental in organising the Eminent Alumni Lecture, Student-Alumni in the campus, Industry-Institute Interaction Program., Reunion of different batches and publishing the annual yearbook. With the aim of mending the broken link between students and alumni, Alumni Cell launched Alumni-Student Mentorship Program with the belief that close interaction with alumni will help students gather invaluable advice regarding overall development and will also aid them in taking crucial informative life-changing decisions.

By executing alumni-driven initiatives for the benefit of students, assisting Alumni in different cities and branding NITDIAN for organising NITDIAN seminar, various reunions and bridging the connectivity gap between the Institute and alumni allows Alumni Cell volunteers to get an insider's view into the alumni world. It is also working for the betterment of the Institute also motivates students to understand the values created by all well-wishers of NIT Durgapur. Through the efforts of Alumni Cell, alumni of REC/NIT Durgapur are now able to pro-actively contribute towards the betterment of their alma mater.

The Student Alumni Body or Team of Student Volunteers was formed with the aim to involve the students in the Alumni Activities from their student-hood itself. The body is to promote the interests of and understanding between the students of the past, present, and future NIT Durgapur through the programs and services offered by their organization. The objective is to educate the general students with a better understanding of the NIT Durgapur Alumni Network and likewise bring the alumni community up to date with the current student body. It is with the endeavour to promote tradition and unity within the Institute to ultimately preserve a lifelong connection for all those who pass through the portals of NIT Durgapur.

Annexure-11.16 Other relevant information

Annexure 11.16 (a): Books authored during 2017-18

Department of Chemical Engineering

Author	Title of the book	Publisher	Date of Publication
Gopinath Halder, Soumya Banerjee	Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents	CRC Press London	12.01.2018
Pathak, U., Das, P., Dasgupta Mandal, D., Datta, S., Kumar, T., Mandal, T.,	Waste Management and Resource Efficiency	Springer	Accepted
Pathak, U., S. Kumari, P. Das, T. Kumar, T. Mandal.	Waste Water Recycling and Management	Springer	Accepted
Pal P.	Industrial Water Treatment Process Technology	ELSEVIER SCIENCE	June, 2017

Department of Civil Engineering

Author	Title of the book	Publisher	Date of Publication
Das, Diptesh (Indian adaptation author/ sole contributor for Indian adaptation)	'Structural Analysis', 9e in SI Units by R C Hibbeler (ISBN – 9789332586147)	Pearson India Education Services Pvt. Ltd	November 2017
Samanta, Amiya Kr. and Animesh Paral	Investigation into the effect of scour on hollow pile-soil interaction	LAP Lambert Academic Publishing GmbH & Co. KG, Germany	March 2018

Department of Electrical Engineering

Author	Title of the book	Publisher	Date of Publication
Ram G., Mandal D., Ghoshal S. P., Kar R.	Nature Inspired Optimization in Antenna Array System", Nature Inspired Computing and Optimization: Theory and Applications, Volume 10, pp 185-215, Editors: Srikanta Patnaik, Xin-She Yang, and Kazumi Nakamatsu	Springer Publishing, Germany, 2017.	2017

Department of Electronics and Communication Engineering

Author	Title of the book	Publisher	Date of Publication
Bhowmick, A., Yadav, K., Dhar Roy, S., Kundu, S.	Cooperative Spectrum Sensing under Double Threshold with Censoring and Hybrid Spectrum Access Schemes in Cognitive Radio Network	IGI Global	
Yadav, K., Bhowmick, A., Dhar Roy, S., Kundu, S.	Spectrum Sensing in Cognitive Radio Networks under Security threats and Hybrid Spectrum Access	EAI/Springer Innovations in Communications and Computing book series	Yadav, K., Bhowmick, A., Dhar Roy, S., Kundu, S.

Department of Humanities & Social Sciences

Author	Title of the book	Publisher	Date of Publication
Sengupta, P.P.	Contemporary Issues on Globalization and Sustainable Development	Serials	March 2018
Sengupta, P.P. & Bhattacharya, B	Sustainable Development and Environmental Governance	Addhayan	February 2018

Department of Mathematics

Author	Title of the book	Publisher	Date of Publication
Kar, S., Moullik, U., Li, X.	Operational Research and Optimization, EdsKar, S. Moullik, U. Li, X., ISBN 978-981-10-7814-9	Springer	January, 2018
Pal, A. and Ghosh, D.	Applications of Fuzzy Mapping in different real life problems, Pal, A. Ghosh, D., ISBN 978-913-9-82943-9	LAP LAMBERT academic publishing	March, 2018

Department of Physics

Author	Title of the book	Publisher	Date of Publication
Goswami, M. Ghosh, R., Meikap, A.K.	Polyaniline Blends, Composites and Nanocomposites, Chapter 12, ISBN: 978-0-12-809551-5	Elsevier Inc., USA.	3rd November 2017

Annexure 11.16 (b)i. Reviews of manuscripts for publication in journals (Sort alphabetically by column 1, surname)

Department of Biotechnology

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Aikat, K.	Bioprocess and Biosystems Engineering	Springer	23 March 2018
Aikat, K.	Environmental Technology	Taylor & Francis	30 March 2018
Bhattacharjee, A.	PLOS ONE	Public library of Science	January 1-August 31, 2017)
Bhattacharjee, A.	Frontiers in Molecular Biosciences	Frontiers	April, 2018
Chaudhuri, S.	Food Research International	Elsevier	February 17, 2018, January 21, 2018, October 17, 2017
Dutta, D.	LWT Food Science and Technology	Elsevier	September , 2017
Dutta, D.	LWT Food Science and Technology	Elsevier	November , 2017
Dutta, D.	Journal of Food Science and Technology	Springer	November , 2017
Dutta, D.	Journal of Food Science and Technology	Springer	July 2017
Mahata, N.	International Journal of Biological Macromolecules	Elsevier	July 2017

Department of Chemical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Gupta, P.	Applied Energy	Elsevier	July 03, 2017
Gupta, P.	Energy & Fuels	American Chemical Society	July 10, 2017
Gupta, P.	Waste & Biomass Valorization	Springer	Feb 08, 2018
Gupta, P.	Energy & Fuels	American Chemical Society	March 31, 2018
Halder, G.	Journal of Hazardous material	Elsevier	May 2017
Halder, G.	Journal of Environmental Chemical Engg	Elsevier	May 2018
Halder, G.	Chemosphere	Elsevier	December 2017
Halder, G.	Journal of Environmental Management	Elsevier	April 2018
Halder, G.	Science of Total Environment	Elsevier	April 2018
Halder, G.	Energy Conversion and Management	Elsevier	March 2018
Halder, G.	Renewable Energy	Elsevier	November 2017
Halder, G.	Ecotoxicology and Environmental Safety	Elsevier	July 2017
Halder, G.	Process Safety and Environmental Protection	Elsevier	December 2017
Halder, G.	Environmental Progress and Sustainable Energy	Willey Blackwell	June 2017
Halder, G.	Adsorption Science and Technology	SAGE	January 2018
Halder, G.	Applied Water Science	Springer	February 2018
Halder, G.	Groundwater for Sustainable Development	Elsevier	January 2018
Halder, G.	Biofuels	Taylor and Francis	May 2018
Halder, G.	RSC Advances	RSC	September 2017
Halder, G.	Journal of Chemical Engg Data	ACS	October 2017
Halder, G.	Industrial and Chemical Engg Research	ACS	August 2017
Halder, G.	Diamond and Related Materials	Elsevier	May 2018
Halder, G.	Journal of Fluorine Chemistry	Elsevier	April 2017
Mandal T.	3-Biotech	Springer	March 2018

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Pal P.	Environmental Technology	Taylor and Francis	7April 2017
Pal P.	Biochemical Engineering Journal	Elsevier Science	20 April 2017
Pal P.	Journal of Membrane Science	Elsevier Science	4th May 2017
Pal P.	Advanced Water Science		4th May 2017
Pal P.	Water Science and Technology	IWA	22 May 2017
Pal P.	Separation & purification Technology	Elsevier Science	25 May 2017
Pal P.	Environmental Science & Pollution Research	Springer	27May 2017
Pal P.	Desalination	Elsevier Science	29May2017
Pal P.	Separation & Purification Technology	Elsevier Science	10 June 2017
Pal P.	Journal of Membrane Science	Elsevier Science	29 June 2017
Paruya Swapan	International Journal of Heat and Mass Transfer	Elsevier	February 4, 2018
Paruya Swapan	Annals of Nuclear Energy	Elsevier	May 23, 2017
Pal P.	Chemical Engineering & Processing	Elsevier Science	9 July, 2017
Pal P.	Indian Journal of Microbiology	Springer	12 July 2017
Pal P.	Environmental Technology	Taylor & Francis	12 July 2017
Pal P.	Environmental Science & Pollution Research	Springer	13 July 2017
Pal P.	International Journal of Environmental Science and Technology	Springer	18 September 2017
Pal P.	Industrial & Engineering Chemistry Research	American Chemical Society	3 October 2017
Pal P.	Materials Science & Engineering	Elsevier	3 October 2017
Pal P.	International Journal of Environmental Science and Technology	Springer	15 October, 2017
Pal P.	Journal: Separation and Purification Technology	Elsevier	9 Nov 2017
Pal P.	International Journal of Environmental Science and Technology	Springer	17 Nov 2017
Pal P.	Desalination	Elsevier	17 Nov 2017
Pal P.	Analytical Chemistry	American Chemical Society	27 Nov 2017
Pal P.	Separation Science & Technology	Taylor & Francis	11 DEC 2017
Pal P.	Nanostructures & Nano objects	Elsevier	11 DEC2017
Pal P.	Journal of Environmental Science & Technology	Springer	13 Jan 2018
Pal P.	International Journal of Environmental Science and Technology	Springer	20 Jan 2018
Pal P.	Journal of Applied Surface Science	Elsevier	11 FEB2018
Pal P.	Separation Science & Technology	Elsevier	20 FEB2018
Pal P.	Environmental Nanotechnology: Monitoring and Management	Elsevier	2 March 2018
Pal P.	Innovative Food Science and Emerging Technologies	Elsevier	23 Mar 2018
Pal P.	Environmental Nanotechnology, Monitoring & Management	Elsevier	31 Mar 2018
Pal P.	Novel Separation Techniques, National Mission Projects on Education through ICT	MHRD	8 June, 2017

Department of Chemistry

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Adhikari Utpal	Material Chemistry and Physics	Elsevier	23.03 2018
Adhikari Utpal	New Journal of Chemistry	Royal Society of Chemistry	11.08.2017
Moi S. C.	Chemistry Select	Wiley-VCH	18.09.2017
Moi S. C.	International Journal of Chemical Kinetics	John Wiley & Sons, Inc.	06.12.2017
Moi S. C.	Inorganica Chemica Acta	Elsevier	13.07. 2017
Moi S. C.	Journal of Coordination Chemistry	Taylor and Francis	27.02.2018
Moi S. C.	J. Mol Liquids	Elsevier	04.08.2017
Moi S. C.	Chemical Papers	Springer	09.05.2018
Moi S. C.	Research on Chemical Intermediates	Springer	04.05.2018
Moi S. C.	J. Mol Liquids	Elsevier	05.01.2018
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	20-04-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	02-05-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	16-08-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	23-09-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	25-10-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	08-11-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	07-12-2017
Mukhopadhyay B.P.	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	12-01-2018
Panja S S	Spectrochimica Acta	Elsevier	18.01.2018
Panja S S	Spectrochimica Acta	Elsevier	26.03.2018
Patra, Apurba K.	Journal of Organometallic Chemistry	Elsevier	January, 2018
Saha R. N.	Journal of Hazardous Materials	Elsevier	03.10.2017
Sukul D.	Carbohydrate Polymers	Elsevier	27.02.2018
Sukul D.	J. Molecular Structure	Elsevier	15.03.2018
Sukul D.	J. Chemical Sciences	Springer	19.11.2017
Sukul D.	J. Chemical Sciences	Springer	27.08.2017
Sukul D.	J. Adhesion Sci Tech.	Taylor & Francis	20.03.2018
Sukul D.	J Taiwan Institute Chemical Engineers	Elsevier	08.02.2018
Sukul D.	Corrosion Science	Elsevier	19.11.2017
Sukul D.	J Molecular Liquids	Elsevier	04.11.2017
Sukul D.	J Molecular Liquids	Elsevier	01.11.2017
Sukul D.	Corrosion Science	Elsevier	17.08.2017
Sukul D.	J Molecular Liquids	Elsevier	13.08.2017
Sukul D.	Corrosion Science	Elsevier	29.07.2017
Sukul D.	Corrosion Science	Elsevier	16.06.2017

Department of Civil Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Das D.	Current Science	Indian Academy of Sciences	May 2017
Das D.	Current Science	Indian Academy of Sciences	June 2017
Das D.	Journal of The Institution of Engineers (India): Series A	Institution of Engineers (India)	August 2017
Das D.	Journal of The Institution of Engineers (India): Series A	Institution of Engineers (India)	October 2017
Das D.	Structural and Materials Journal	American Concrete Institute	February 2018
Nanda R. P.	Engineering Structure	Elsevier	April12, 2017
Nanda R. P.	Engineering Structure	Elsevier	March, 2018
Nanda R. P.	Engineering Structure	Elsevier	April12, 2017
Samanta A. K.	Journal of Institution of Engineers(I) : IEIA-D-17-00071	Springer	May 2016
Topdar P.	Journal of The Institution of Engineers (India): Series A	Institution of Engineers (India)	September 2017

Department of Computer Science and Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bhattacharjee, S.	IET Networks	IET Digital Library	August 16, 2017
Chandran, S.	Transactions on Circuits and Systems for Video Technology	IEEE	14, March 2018
De T.	Optical Switching and Networking	Elsevier	October 7, 2017
De T.	Computers and Electronics in Agriculture	Elsevier	June 4, 2017
Kisku, D.R.	Computers and Electrical Engineering	Elsevier	April 27, 2017
Kisku, D.R.	IEEE Transactions on Image Processing	IEEE	July 22, 2017
Kisku, D.R.	Journal of Electrical and Computer Engineering	Hindawi	September 4, 2017
Kisku, D.R.	IEEE Transactions on Systems, Man and Cybernetics: Systems	IEEE	November 17, 2017
Kisku, D.R.	Computers and Electrical Engineering	Elsevier	November 29, 2017
Kisku, D.R.	Informatics in Medicine Unlocked	Elsevier	January 23, 2018
Kisku, D.R.	Computers and Electrical Engineering	Elsevier	February 14, 2018
Kisku, D.R.	Information Fusion	Elsevier	February 17, 2018
Kisku, D.R.	Mathematical Problems in Engineering	Hindawi	March 21, 2018
Mitra, D.	Journal of Electronic Testing: Theory and Applications	Springer	May 9, 2017
Mitra, D.	Journal of Electronic Testing: Theory and Applications	Springer	September 10, 2017
Sanyal G	IET Image Processing	IET Digital Library	12/05/2017
Sanyal G	IEEE Transaction on Information Forensics &Security	IEEE	19/05/2018
Sanyal G	International Journal of Information and Computer Security (IJICS).	Inderscience	23/01/2018
Sanyal G	IET Image Processing	IET Digital library	7/1/2015
Sanyal G	IEEE Transaction on Signal Processing Letters	IEEE	10/4/2014
Sarker, G.	IJDSST	IGI Global	March 31, 2018

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Sen, B	JCSC	World Scientific	Nov 21, 2016
Sen, B	JCSC	World Scientific	Nov 20, 2016
Sen, B	IET CDS	IET	30 Sep, 2016
Sen, B	ASEJ	Elsevier	Sep 29, 2016
Sen, B	TETC	IEEE	09-Feb-2016

Department of Electrical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Ghoshal S.P	Engineering Applications of Artificial Intelligence	Elsevier	09/11/2017
Ghoshal S.P	Computational Intelligence and Neuroscience	Hindawi	14/3/2018
Ghoshal S.P	Journal of Robotics	Hindawi	23/3/2018
Banerjee S	IEEE Trans. on IE	IEEE	27.12.2016
Mahato S. N.	IET Electric Power Applications	IET	08.02.2018

Department of Electronics and Communication Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Chandra, A.	IEEE Antennas and Wireless Propagation Letters	IEEE	Nov. 23, 2017
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	May 04, 2018
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	Oct. 11, 2017
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	May 05, 2017
Dhar Roy, S.	IJCS	Wiley	6 July 2018
Dhar Roy, S.	Computer Communication	Elsevier	30 May 2018
Dhar Roy, S.	Physical Communication	Elsevier	11 April 2018
Dhar Roy, S.	International Journal of Electronics & Communications	Elsevier	12 December 2017
Dhar Roy, S.	IJCS	Wiley	28 June 2017
Dhar Roy, S.	IETE Technical Review	IETE	14 June 2017
Ghatak R	IEEE Transaction on Antenna and Propagation, IEEE Transaction on Microwave Theory and Techniques, IEEE Microwave and Wireless Propagation Letters, IET Microwave Antennas and Propagation, PIER , AEUE International journal of Electronics and Communication, RFMICAE, JEMWA	IEEE/ IET, Springer, Elsevier, Taylor Francis	2017-18
Kundu Sumit	Aeue Journal of Electronics & Communication	Elsevier	Jan 2018
Kundu Sumit	Physical Communication	Elsevier	March 2018
Mahanti G. K.	IEEE Antennas and Wireless Propagation Letters	IEEE	July 2017
Mahanti G. K.	IEEE Transactions on Antennas and Propagation	IEEE	September 2017

Department of Management Studies

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Ghosh, Amlan	IIMB Management Review	Elsevier	March, 2018
Ghosh, Amlan	Journal of Financial Regulation and Compliance	Emerald	March, 2018
Ghosh, Amlan	Journal of Financial Economic Policy	Emerald	Feb, 2018
Ghosh, Amlan	Journal of Business & Financial Affairs	Omics Pub. Group	Sep, 2017
Ghosh, Amlan	Journal of Global Economics	Omics Pub. Group	Aug, 2017
Ghosh, Amlan	International Journal of Economics and Management Sciences	Omics Pub. Group	Jan, 2018
Ghosh, Amlan	Business and Economics Journal	Omics Pub. Group	Dec, 2017
Pal, Durba	Journal of the Indian Academy of Applied Psychology	IAAP	May, 2017
Prof.M.Roy	Journal of Cleaner Production	Elsevier Science	25 October 2017
Prof.M.Roy	Clean Technology and Environmental Policy	Springer	14 May 2017

Department of Mathematics

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bagchi, S.	Advances in Applied Clifford Algebras	Springer	December, 2017
Dey L.K.	DemonstratioMathematica	De Gruyter	June, 2017
Pal, P.	International Journal of Heat and Mass Transfer	Elsevier	March, 2018
Pal, P.	Pramana – Journal of Physics	Springer	November, 2017
Pal, P.	Physica A	Elsevier	March, 2018
Kar, S.	Applied Soft Computing	Elsevier	February, 2018
Kar, S.	IEEE Transactions on Fuzzy Systems	IEEE	January, 2018
Pal, A.	Discrete Mathematics, Algorithms and Applications	World Scientific	September, 2017
Pal, A.	Journal of The Egyptian Mathematical Society	Elsevier	March, 2018
Pal, A.	Clustered Computing	Springer	December, 2017
Pal, A.	SIAM J. Comput.	Society for Industrial and Applied Mathematics (U.S)	November, 2017
Pal, A.	Journal of Informatics and Mathematical Sciences	RGN Publishers	February, 2018
Pal, A.	Mathematical Reviews	American Mathematical Society	September, 2017
Maitra, S.	Contribution to Plasma Physics	Wiley	January, 2018

Department of Mechanical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Banerjee Nilotpal	Advances in Mechanical Engineering	Sage Publication	21 Apr, 2018
Banerjee Nilotpal	Institution of Engineers of India :Series C	Spinger	19 Apr, 2018
Banerjee Nilotpal	Institution of Engineers of India :Series C	Spinger	30 June, 2018
Banerjee Nilotpal	Vehicle System Dynamics	Talyor and Francis	13 Sept, 2017

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Barman R. N.	International Journal of Heat and Technology	IIETA	March,2018
Hui N. B.	IEEE Tans. On Mechatronics	IEEE	February 2018
Hui N. B.	International Journal of Manufacturing Technology and Management (IJMTM).	Inderscience	June 2017
Hui N. B.	International Journal of Modelling, Identification and Control (IJMIC)	Inderscience	January 2018
Pramanick, Achintya Kumar	International Journal of Heat and Mass Transfer	Elsevier	February, 2018

Department of Metallurgical and Materials Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bera S	Journal of Alloys and compounds	Elsevier	May 2017
Bera S	Vacuum	Elsevier	May 2017
Bera S	Journal Of Alloys and compounds	Elsevier	Dec 2017
Bera S	Powder Technology	Elsevier	Feb 2018
Mondal, Manas Kumar	Materials Research Express	IOP Publishing	July 27, 2017

Department of Physics

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Chakraborty, AK	ACS Applied Materials & Interfaces	American Chemical Society	August 2, 2017
Chakraborty, AK	Journal of Physical Chemistry	American Chemical Society	May 30, 2017
Chakraborty, AK	IEEE Sensors Journal	IEEE	March 13, 2018
Chakraborty, AK	Materials Research	ABM, ABC & ABPol (Brazil)	March 13, 2018
Kumbhakar, P.	Physical Chemistry Chemical Physics	RSC	May 9, 2017
Kumbhakar, P.	J. Luminescence	Elsevier	May 11, 2017
Kumbhakar, P.	Desalination	Elsevier	July 21, 2017
Kumbhakar, P.	Spectrochemica Acta: Part A	Elsevier	May. 15, 2017
Kumbhakar, P.	Advanced Optical Materials	Wiley	July 31, 2017
Kumbhakar, P.	PhD Thesis (MANIT Bhopal)	---	Aug., 2017
Kumbhakar, P.	IEEE Transactions	IEEE	Aug. 14, 2017
Kumbhakar, P.	Opt. Materials Exp	OSA	Aug. 24, 2017
Kumbhakar, P.	Opt. Material	Elsevier	Sept. 4, 2017
Kumbhakar, P.	Spectrochemica Acta: Part A	Elsevier	Sept. 18, 2017
Kumbhakar, P.	J. Mol. Liquids	Elsevier	Sept. 25, 2017
Kumbhakar, P.	J. Alloys and Compounds	Elsevier	Oct. 14, 2017
Kumbhakar, P.	Opt. Express	OSA	Nov. 1, 2017
Kumbhakar, P.	PhD Thesis (BHU)	----	Nov. 2, 2017
Kumbhakar, P.	Opt. Lett.	OSA	Oct. 17, 2017
Kumbhakar, P.	PhD Thesis (B.U., Burdwan)	---	Nov. 3, 2017
Kumbhakar, P.	PhD Thesis (IIT(ISM) Dhanbad)		Nov. 21, 2017
Kumbhakar, P.	Nanoscale	RSC	Dec. 8, 2017
Kumbhakar, P.	Sensors and Actuators	Elsevier	Jan. 18, 2018
Kumbhakar, P.	Small	Wiley	Jan. 31, 2018
Kumbhakar, P.	RSC Advances	RSC	Feb. 9, 2018

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Kumbhakar, P.	Optics Express	OSA	Feb. 12, 2018
Kumbhakar, P.	Physics E	Elsevier	March 5, 2018
Kumbhakar, P.	Appl. Materials and Interfaces	ACS	March 19, 2018
Meikap, A K	Polymer Composites	John Wiley & Sons	April 2017
Meikap, A K	Physica B	Elsevier	May 2017
Meikap, A K	Polymer Composites	John Wiley & Sons	May 2018
Meikap, A K	Bulletin of Materials Science	Springer	June 2017
Meikap, A K	Materials Chemistry and Physics	Elsevier	June 2017
Meikap, A K	Applied Physics Letter	AIP	August 2017
Meikap, A K	Materials Letter	Elsevier	November 2017
Meikap, A K	Polymer Composites	John Wiley & Sons	November 2017
Meikap, A K	Materials Research Bulletin	Elsevier	November 2017
Meikap, A K	Polymer Composites	John Wiley & Sons	January 2018
Meikap, A K	Journal of Physics Chemistry Of Solids	Elsevier	January 2018
Meikap, A K	Journal of Magnetism and Magnetic Materials	Elsevier	January 2018
Meikap, A K	Journal of Alloys and Compounds	Elsevier	January 2018
Mondal A.	Nanoscale	RSC	Jan. 24, 2018
Mondal A.	IEEE Transactions on Nanotechnology	IEEE	Dec. 5, 2017
Mondal A.	Journal of Electronic Materials	Springer	Mar. 18, 2018 Jan. 16, 2018 Apr. 24, 2017
Mondal A.	Plasmonics	Elsevier	Jan. 17, 2018
Mondal A.	Journal of Nano Photonics	SPIE	Jan. 05, 2018
Mondal A.	Journal of Vacum Science & Technology	Elsevier	Mar. 02, 2018
Mondal A.	Materials Research Express	IOP Science	Nov. 13, 2017
Mondal A.	RSC Advances	RSC	July. 27, 2017
Mondal A.	Materials Research Bulletin	Elsevier	Mar. 13, 2018
Mondal A.	Thin Solid Films	Elsevier	Mar. 03, 2018
Mondal A.	J. Alloys and Compounds	Elsevier	Sept. 30, 2017 Jan. 25, 2018
Sahoo S.	Journal of Physics and Astronomy Research	Premier Publishers, USA	July, 2017
Sahoo S.	Modern Physics Letters B	World Scientific, Singapore	March, 2018
Sahoo S.	Journal of Physics and Astronomy Research	Premier Publishers, USA	March, 2018

Annexure 11.16 (b)ii. Reviews of books during 2016-17

Department of Chemical Engineering

Reviewer	Name and author of the book	Publisher	Date
Das B.	Visible Light Active Nanocomposites for Photocatalytic Applications for the book, Composites and Advanced Materials for Industrial Applications, is due in three days on 7/31/2017.	eEditorial Discovery	7/31/2017
Pal P.	Sustainable Remediation of Contaminated Soil and Groundwater: Materials, Processes, and Assessment	Elsevier	31/3/2018

Reviewer	Name and author of the book	Publisher	Date
Pal P.	Sustainable Treatment Technologies using Microbial Fuel Cells, Rouzbeh Abbasi et al.	Elsevier	26/7/17
Pal P.	Emerging Contaminants and Micro pollutants in the Environment Remediation, Recovery, and Treatment Technologies, M.V.S. Prasad	Elsevier	18/9/17

Department of Computer Science and Engineering

Reviewer	Name and author of the book	Publisher	Date
Chandran, S.	Medical Image Processing for Improved Clinical Diagnosis, Swarnambiga Ayyachamy	IGI Global	Nov 2017

Department of Electronics and Communication Engineering

Reviewer	Name and author of the book	Publisher	Date
Dhar Roy, S.	Optical Communication	OUP	6 July 2017

Department of Management Studies

Reviewer	Name and author of the book	Publisher	Date
Dr Amlan Ghosh	Horngren's Financial & Managerial Accounting 6 e	Pearson	Nov, 2017

Department of Mechanical Engineering

Reviewer	Name and author of the book	Publisher	Date
Pramanick, Achintya Kumar	A. Thess, The Entropy Principle: The Thermodynamics for the Unsatisfied	Springer Verlag	March, 2018
Rana S. C.	Energy Engineering and Environmental protection(EEEP-2017)	Sanya	November-2017

Annexure 11.16(c). Participation in National Committees/ visits during 2017-18

Department of Biotechnology

Name of the faculty	Name of the committee	Place of visit	Date
Chattopadhyay, S.	PAC, DST, Govt. of India	DST, New Delhi	2016
Chattopadhyay, S.	INSPIRE Faculty Selection Committee, Govt. of India	DST-INSA, New Delhi	2016
Chattopadhyay, S.	SAC-RAP	Bose Institute, Kolkata	2016
Chattopadhyay, S.	Indian Academy of Science Fellowship scrutiny committee	Bangalore	2017
Chattopadhyay, S.	National Academy of Sciences India Fellowship scrutiny committee	Allahabad	2017

Department of Electrical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Ghosh S.	Class Analysis of Electrical Engineering	Asansol Engg. College, Asansol	16.03.2018
Ghosh S.	NIMCET 2017	Member of Technical Committee	2016-2017
Ghosh S.	CCMT 2017	SVNIT Surat	
Ghosh S.	CCMT 2018	NIT Delhi	

Department of Computer Science and Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Kisku, D.R.	Information Systems Security and Biometrics' Sectional Committee, LITD 17 under Bureau of Indian Standards	Bangalore	2017
Pal, T	International Advisory Committee, ICRCICN 2017, Kolkata		November 3-5, 2017
Pal, T	Advisory Committee member of the ICCAN-2017, KIIT University, Bhubaneswar, Odisha		December 15-16, 2017
Sarker, G.	Conference Advisory Committee IEMGraph		2018

Department of Physics

Name of the faculty	Name of the committee	Place of visit	Date
Chaudhuri H.	State level committee for RAA at West Bengal		
Chaudhuri H.	Member from NIT Durgapur of National Coordination Committee (NCC) of BRICS Network University Programme		

Department of Mathematics

Name of the faculty	Name of the committee	Place of visit	Date
Pal, A.	Curriculum Revise	NIT Sikkim	28th April, 2017

Annexure 11.16(d). Invited examiners/paper-setters/board of studies (Sort alphabetically by column 1, surname)

Department of Biotechnology

Name of the faculty	Name of the examination	University/Institute	Date
Aikat, K.	M.Tech. project evaluation	IIT Kharagpur	May 2017
Chattopadhyay S	Member of Board of Studies	Burdwan University Burdwan	2017
Chattopadhyay S	Member of Board of Studies	Visva-Bharati University Santiniketan	2017
Chaudhuari, S.	Exam setter for B. Tech (Biotechnology)	Integral university	September 2017
Dutta, D.	Exam setter for B. Tech (Food technology)	Integral university	September 2017

Department of Chemical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Das, B.	B. Tech	Calcutta University	01.08.2017
Das, B.	B. Tech	Calcutta University	05.06.2018-07.06.2018
Ghanta, K.C.	Board of Studies, Chemical Engg.,	MIT AOE, Pune University, Pune	9.11.2017
Ghanta, K.C.	PhD thesis examination	UICT, North Maharashtra University, Jalgaon	23.2.18
Gupta, P.	M. Tech. dissertation	IIT Kharagpur	May 02, 2018
Ghanta, K.C.	PhD thesis examination	Jadavpur University	19.3.18
Halder, G. N.	PhD Evaluation	Thapar University	17.04.2018
Halder, G. N.	UPSC-IFS Examination	UPSC Board, Noida	21.05.2017
Halder, G.N.	B. Tech, Fuel Technology	Calcutta University	04.01.2018
Halder, G.N.	PhD Thesis Evaluation	Madurai Kamraj University	12.09.2017
Mandal, T.	M.Tech in Biotechnology	IIT Kharagpur	May 2018
Pal, P.	PhD thesis	Kamraj University	Dec 2017

Department of Chemistry

Name of the faculty	Name of the examination	University/Institute	Date
Adhikari Utpal	M.Sc. Chemistry	Kazi Nazrul University, Asansol	28.02.2018
Adhikari Utpal	M.Sc. Chemistry	Kazi Nazrul University, Asansol	06.03.2018
Adhikari Utpal	Moderator for M.Sc. in Chemistry papers	Sidho-Kanho-Birsha University, Purulia	11.05.2017
Moi S. C.	Paper setter	Bankura University	12/03/2018
Moi S. C.	Examiner for M.Sc., Semester-II Practical Examination Paper code: MCHEM 0412	Kazi Nazrul university	08-08-2017
Moi S. C.	Examiner for M.Sc., Semester-II Practical Examination (Paper code: MCHEM 0416	Kazi Nazrul university	18.08.2017
Mukhopadhyay B.P.	PhD Viva-voce examination	Burdwan University	29/12/2017
Mukhopadhyay B.P.	Acting as UG moderator in Biochemistry under (1+1+1) system	Kazi Nazrul university	3/05/2017
Mukhopadhyay B.P.	External moderator of question paper for admission to M.Sc. for session 2017-19	Burdwan University	21/07/2017
Mukhopadhyay B.P.	External examiner of UG aprt II (Hons.) practical examination (2017)	Durgapur Institute of Science and Technology	23rd,28th and 29th June, 2017
Panja S S	Examiner for M.Sc., Practical Examination	Burdwan University	29.08.2017
Panja S S	Examiner for M.Sc., Practical Examination	Burdwan University	23.02.2018
Panja S S	Examiner for M.Sc., Practical Examination	Kazi Nazrul University	09.08.2017
Saha R.N.	B. Tech. Electronics and Communication Engineering(Chemistry for Mechanical Engineering, ECS-122)	NIT Hamirpur (HP)	24.04.2017
Saha R.N.	Examiner for the UG Second Semester Practical examination 2017 in Biotechnology and Biochemistry Practical examination 2016	Kazi Nazrul University	01.07.2017.
Saha R.N.	Examiners for conducting practical examination for MCB-401.	Conservation Biology, Durgapur Government College, Durgapur Kazi Nazrul University	24.08.17

Name of the faculty	Name of the examination	University/Institute	Date
Saha R.N.	Examiners for M.Sc., Semester-II in Environmental Science Practical Examination, 2017 in Paper MENVS-0205.	Burdwan University	22.08.17
Saha R.N.	Paper setter for B. Tech. Mechanical Engineering (Chemistry for Mechanical Engineering, MES-112)	NIT Hamirpur (HP)	23.11.2017
Saha R.N.	Paper setter for the PG 1st Semester Examination, Subject: Conservation Biology Paper code: 102 Name of Paper: Natural Interaction	Kazi Nazrul University, Asansol	29.01.2018

Department of Civil Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Datta A.K.	Paper setter and examiner of AMIIW Examination	The Indian Institute of Welding	Summer, 2017 and Winter 2017
Samanta A. K.	External expert for Pre-Regn Seminar for PhD enrolment	Jadavpur University	April 2017
Samanta A. K.	External expert for M.Tech Thesis Examination of Construction engg Deptt.	Jadavpur University	June 2017
Topdar P.	External examiner for M.Tech. Theses Examination of Dept. of Ocean Engg. & Naval Architecture	IIT Kharagpur	May 2017

Department of Computer Science and Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Chandran, S.	Ph.D. Viva Voce	VIT, Tamil Nadu	August 2017
Chandran, S.	Ph.D. Viva Voce	VTU, Tamil Nadu	April 2017
Dalui, M.	B.Tech final year project viva voce	Birla Institute of Technology, Mesra, Ranchi	April 2018
De, T.	Examiner of PhD thesis evaluation	Sathyabama University, Chennai, Tamil Nadu, India	November 2017
Kisku, D. R.	Paper Setter for B.Tech 8th Semester Examination	Integral University, Lucknow, India	April 2017
Mitra, D.	M.Tech. Theses Evaluation	IIEST Shibpur	May 2017
Mitra, D.	B. Tech. Grand Viva Voce	IIEST Shibpur	May 2017
Sanyal G	Ph D thesis	NIT Allahabad	May 2018
Sanyal G	Ph D thesis	NIT Agartala	September 2017
Sanyal G	BRS member	RGVTU, Bhopal	May 2017
Sanyal G	BRS member	UIT Burdwan	2017 & 2018

Department of Electrical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Ghoshal S.P. (Paper Setter)	A.M.I.E	The Inst. Of Engg. (India)	15/3/2018
Ghoshal S.P. (Visiting Professor)	B.Tech.	DIATM, Rajbandh under Maulana Abul Kalam Azad University of Technology, West Bengal.	
Jan-May,2018			
Ghosh S.	PhD	NIT, Nagaland	12.08.2017

Name of the faculty	Name of the examination	University/Institute	Date
Ghosh S.	BOS	Aliah University, Kolkata	24.03.2018
Banerjee S	Progress Seminar, PhD	IIEST, Shibpur	17.02.2017
Banerjee S	PhD Viva-voce	Jadavpur University	17.02.2017
Banerjee S	Poster Session Evaluator for Research Scholar	IIT Kharagpur	06.02.2017
Saha T K	M. Tech thesis evaluation	IIT Kharagpur	May, 2015
Bhowmik P. S.	B.Tech	JIS College of Engg.	22/3/2018

Department of Electronics and Communication Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Dhar Roy, S.	B.Tech.	Integral University Lucknow	2017
Ghatak, R.	M.Tech (Microwave) Viva	The University of Burdwan	2017-18 odd sem and even sem
Ghatak, R.	Member of Board of Studies of ECE Dept.	BIT Mesra	2017-18
Ghatak, R.	Member of Board of Studies of ECE Dept.	UIT Burdwan University	2017-18

Department of Humanities & Social Sciences

Name of the faculty	Name of the examination	University/Institute	Date
Sengupta P.P	PhD Thesis	University of Jammu	Sep, 2017
Sengupta P.P.	PhD Thesis	Central University of Hyderabad	Feb, 2018

Department of Mathematics

Name of the faculty	Name of the examination	University/Institute	Date
Pal, A.	B.Sc . (Honours) Computer Science	Visva-Bharati, Santiniketan	17th November, 2017
Basu, K.	M.Sc project final Sem examination	IIT Kharagpur	May, 2017

Department of Mechanical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Barman R. N.	PhD thesis Oral Examination Board	Anna University Centre for Research	Dec,2017
Saha Anup Kumar	External Examiner for B.Tech VIVA-VOCE	IIT (ISM) Dhanbad	May 2017
Saha Anup Kumar	PhD Thesis Evaluation	JNTU, Anantapur, (A.P.)	April, 2017
Saha Anup Kumar	PhD Thesis Evaluation	JNTU, Anantapur, (A.P.)	Sept. 2017

Department of Physics

Name of the faculty	Name of the examination	University/Institute	Date
Chakraborty, AK	PhD (pre-submission)	ISERC, Visvabharati University	April 18, 2017
Kumbhakar P.	M.Sc. (Physics) project work assessment	IIT (ISM) Dhanbad	2017-2018
Kumbhakar P.	External Examiner in relation to the M.Sc. project work assessment of Dept. of Physics	IIT Kharagpur	2017-2018
Kumbhakar P.	Post Graduate Board of Studies in Physics	Kazi Nazrul University, Asansol	2017-2018

Name of the faculty	Name of the examination	University/Institute	Date
Kumbhakar P.	Member of the Doctoral Committee of Dept. of Physics	Burdwan University	2017-2018
Kumbhakar P.	Examiner for the PG Semester Examination, 2017 of Physics (4th SEM)	Kazi Nazrul University, Asansol	2017-2018
Meikap A. K.	Conducting Viva-Voce Examination of Ph.D. candidate	University of Kalyani	May 16,2017
Meikap A. K.	External Expert for Board of Research Studies in Physics	Kazi Nazrul University, Asansol	December 22, 2017
Meikap A. K.	Conducting Viva-Voce Examination of Ph.D. candidate	University of Kalyani	February 23, 2018
Meikap A. K.	Assessor in the Performance Management of Faculty Members of "Physics"	JIS Group, "Asansol Engineering College", Asansol	March 15, 2018
Meikap A. K.	Conducting Viva-Voce Examination of Ph.D. candidate	National Institute of Technology Raipur	March 24, 2018
Meikap A. K.	Curriculum workshop to revise the B. Tech. Physics syllabus	NIT Sikkim	May 8, 2017
Meikap A. K.	Paper setter & Examiner	The Indian Institute of Metal, Kolkata	2017-2018
Meikap A. K.	Paper Setter	Burdwan University, Burdwan	2017-2018
Sahoo S.	Int. M. Sc., 2nd Sem Question Paper Setter	Veera Surendra Sai University of Technology, Burla, Odisha	February, 2018

Annexure 11.16(e). Invited experts in selection committee (Sort alphabetically by column 1, surname)

Department of Biotechnology

Name of the faculty	Discipline	University/Institute	Date
Chattopadhyay, S.	Selection of Prof BK Bachhawat Travel Award	CMC, Vellore	2017
Kazy, S. K.	Selection of JRF/Project Assistant	CSIR-CMERI	June, 2017
Kazy, S. K.	Selection of JRF/Project Assistant	CSIR-CMERI	December, 2017
Kazy, S. K.	Selection of JRF/SRF/Project Assistant	CSIR-CMERI	January, 2018

Department of Chemical Engineering

Name of the faculty	Discipline	University/Institute	Date
Halder. G. N.	Chemical Engg.	Indian Institute of Technology (ISM) Dhanbad	12.01.2018
Mandal, T.	Management Trainee	COAL INDIA LTD.	November 2017

Department of Chemistry

Name of the faculty	Discipline	University/Institute	Date
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	28-09-2016
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	08-12-2016
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	24-03-2017
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	05/12/2017
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	25/01/2018
Mukhopadhyay B.P.	Chemistry	CMERI-Durgapur	12/05/2017
Patra, Apurba K.	Chemistry	CMERI, Durgapur	28.07.2017

Name of the faculty	Discipline	University/Institute	Date
Patra, Apurba K.	Chemistry	DAV Model School Durgapur	17.03.2018
Saha R N	Evaluator for 25th NCSC-2017 (National Children's Science Congress)	DAV Model School, Durgapur	20.08.2017
Saha R.N.	Faculty selection	Sanaka Educational Trust's Group of Institutions	29.07.2017
Saha R.N.	Faculty selection	Sanaka Educational Trust's Group of Institutions	04.11.2017
Sukul D.	Ph D Program	CMERI-Durgapur	07.12.2017
Sukul D.	Chemistry	CMERI, Durgapur	28.07.2017
Sukul D.	Chemistry	DAV Model School Durgapur	17.03.2018

Department of Computer Science and Engineering

Name of the faculty	Discipline	University/Institute	Date
De, T.	Expert member of the selection committee for Assistant Professor (CSE) in Govt. Engineering college Interview under BPSC	Bihar Public Service Commission (BPSC)	July 10-11, 2017
Sanyal, G.	Faculty Selection	NIT Goa	July,2018
Sanyal, G.	Faculty Selection	NIT, Warangal	May 2014
Sanyal, G.	Faculty Selection of BPSC	Patna	June 2017
Sanyal, G.	CSE	HPSC	June 2017 & 2018

Department of Civil Engineering

Name of the faculty	Discipline	University/Institute	Date
A K Banik	Civil Engineering	TPSC Agartala	27th May to 6th June 2018

Department of Electrical Engineering

Name of the faculty	Discipline	University/Institute	Date
Ghoshal S.P.	E.E.	JIS College of Engg., Kalyani	07/4/2017
Ghoshal S.P.	E.E.	Jadavpur University	10/4/2017
Ghoshal S.P.	E.E.	Jadavpur University	03/7/2017
Ghoshal S.P. (Thesis Examiner) Viva voce due on 25/6/2018)	E.E.	Jadavpur University	03/3/2018
Banerjee S	Electrical Engineering	SETGI, Durgapur	17.03.2017
Banerjee S	Electrical Engineering	Jadavpur University	23.08.2017
Mahato S. N.	Electrical Engineering	Institute of Engineering and Technology, Malandighi, Durgapur-12	29.07.2017
Mahato S. N.	Electrical Engineering	Institute of Engineering and Technology, Malandighi, Durgapur-12	25.01.2018

Department of Electronics and Communication Engineering

Name of the faculty	Discipline	University/Institute	Date
Rowdra Ghatak	ECE	VSSUT University (formerly UCE Burla)	31st July 2017

Department of Management Studies

Name of the faculty	Discipline	University/Institute	Date
Bandyopadhyay Gautam	Department of Business Management	University of Calcutta	11th August,2017
De Anupam	Commerce	DAV Model School	16th March, 2018

Department of Mechanical Engineering

Name of the faculty	Discipline	University/Institute	Date
Saha Anup Kumar	Hairman Selection Committee For Seelection of Project Assistant	CSIR-CMERI Durgapur	January 24, 2018

Department of Physics

Name of the faculty	Discipline	University/Institute	Date
Meikap, A. K.	Member of Selection Committee for recruitment of Professor, Associate Professor and Assistant Professor of the Department of Physics	Kazi Nazrul University, Asansol	March 16-18 2018
Meikap, A. K.	Member of Selection Committee for recruitment of Assistant Professor of the Department of Physics	Kazi Nazrul University, Asansol	August 2 2017

Annexure 11.16(f). Invited lectures

Department of Biotechnology

Name of the faculty	Title of the lecture	Programme	Place	Date
Aikat, K.	Purification Processes for Bioactive Compounds	Short Term Course on Bioactive Compounds from Natural Sources and their Healthcare Applications (BIONUTRA 2018)	NIT Durgapur	Jan 8-12, 2018
Chattopadhyay, S.	Function of CAM7 and HY5 and MYC2 in Arabidopsis seedling development.	Invited lecture	IISER, Mohali	October 21, 2017
Dey, A.	Biodegradation of Phenolic Compounds	Advancement in Green Technology for Controlling and Managing Current Environmental Pollution	Department of Ecological Studies and International Centre for Ecological Engineering, University of Kalyani	March 23, 2018
Ghosh, M.	A novel drug combination For Anti leishmanial therapy.	World congress on Genetics, Genomics And Personalized Medicine-2017 having theme Emphasizing the Knowledge of Personalized Medicine, 4th International conference	IISc, Bengaluru Karnataka, India	November 15-17, 2017

Name of the faculty	Title of the lecture	Programme	Place	Date
Kazy, S. K.	Enhanced bioremediation of oil refinery sludge through bioaugmentation and biostimulation of indigenous microbial community	58th Annual Conference of AMI (AMI-2017)	Babasaheb Bhimrao Ambedkar Central University, Lucknow	Nov., 16-19, 2017

Department of Chemical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Paruya Swapan	Chebyshev Methods for Solving Differential Equations using MATLAB	A Short-Term Course on Matlab and Simulink for Technical Computing	Mechanical Engineering Dept., NIT Durgapur	January 15-19, 2018

Department of Chemistry

Name of the faculty	Title of the lecture	Programme	Place	Date
Moi S. C.	Pt(II) and Pd(II) based anticancer agents designing, synthesis, characterization of: their kinetics, Bioactivity and theoretical study,	Two days SERB-DST sponsored National seminar.	TDB College Ranigang, West Bengal	5th April '2018
Moi S. C.	Superior normal cell viability of Pt(II) complexes than cisplatin with benzimidazole as carrier ligand: Synthesis, DNA binding, anticancer property and computational study	National symposium sponsored by DST, Government of India	Raiganj University, North Dinajpur, WB	21st March'2018
Moi S. C.	Designing, Synthesis, characterization of Pt(II) and Pd(II) based anticancer agents: their kinetics, Bioactivity and theoretical study,	World Cancer Submit and Drug Discovery and Drug Delivery Congress Best Speaker award with Gold Medal	Science City, Kolkata, India	20-22nd September' 2017
Moi S. C.	A co-relation between corrosion and pollution in thermal power plant: a remedy to balance sustainable environment in Damodar Valley in India,	International conference	Canary Island, Spain	17-19 July'2017

Name of the faculty	Title of the lecture	Programme	Place	Date
Mukhopadhyay B.P.	Protein Dynamics: Water mimic inhibitor/ Drug Design	3 days nation conference on recent developments in chemistry	NIT Durgapur	6th October, 2016
Mukhopadhyay B.P.	Protein Dynamics	03 days national seminar on recent trends in applied sciences and humanities	DIATM, Durgapur	7th March, 2017
Mukhopadhyay B.P.		Current advances in Bioprocess technology	NIT Durgapur	21st july, 2016
Patra, A. K.	Invited lecture on "Modelling Biological Cu Sites with N,S Donor Ligands"	Three days International Symposium	IIT Guwahati	8-10th December, 2016
Patra, Apurba	Model Complexes Shedding Light on Conflicting Mechanisms of CuNiR	Symposium on "Frontiers in Inorganic Chemistry-II (FIC-II)"	IACS Kolkata	March 7-9, 2018
Saha R.N.	Green chemistry approaches for the reduction of pollution	Two Days National Seminar, entitled, Chemistry on its Way: Impacts on the Environment	Saldiha College, Bankura, West Bengal	01.09.17
Saha R.N.	Wastewater Management	Special virtual lecture on Wastewater Management	Department of Conservation Biology, Durgapur Government College, West Bengal	13.09.17

Department of Civil Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Roy, P.	i. Water Supply Pipelines. ii. Road Construction. iii. Road Drainage.	Training Programme for Engineers (Civil)	NPTI, Durgapur	July 26-27, 2017
Samanta, A. K.	Recent trends in Structural Engg.	Seminar	Luthfaa Polytecnic Institute Molandighi, Durgapur	Aug. 2, 2017

Department of Computer Science and Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Chandran, S	Latest Research Trends in Biometrics	5th International Conference On Emerging Trends in Engineering science Technology	Thrissur, Kerala	19-01-2018
Pal, T	Introduction of Evolutionary Computing and Artificial Neural Network	One day Symposium on "Computational Intelligence: Theories, Applications and Future Aspects"	Assam University	August 8, 2017
Pal, T	Machine Learning	One Day Workshop on Machine Learning	SIT, Siliguri	Nov. 11, 2017

Department of Electrical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Banerjee S	Modelling and Control of Switch-Mode Power Converters	Faculty development Program on TMCPED	RCC Institute of Information Technology, Kolkata	27.07.2017
Mahato S. N.	Control of Isolated Induction Generators	Seminar on "Renewable Energy - Wind Mill - Induction Generator"	Institute of Engineering Technology, Malandighi, Durgapur-12	31.10.2017

Department of Electronics and Communication Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Chandra, A.	Undergraduate research and IEEE	Seminar on Demystifying the World of Research, IEEE student branch	NIT Durgapur	Apr. 11, 2018
Chandra, A.	MATLAB: Electrical engineering applications	Short term course on Matlab and Simulink for Technical Computing (MSTC 2018)	NIT Durgapur	Jan. 15-19, 2018
Ghatak R.	Is the Same Dynamical Theory of Electromagnetic Fields which Maxwell Thought is Taught Today?	QIP sponsored Short Term Course on Recent Trends in Antenna and Analysis and Design 2017	Veer Surendra Sai University, Burla Odisha	15th May to 20th May 2017
Ghatak R.	Is the Same Dynamical Theory of Electromagnetic Fields which Maxwell Thought is Taught Today?	UGC Refresher Course on Electronics and Computer Science	UGC Human Resource Development Center of the University of Burdwan	22nd July 2017
Ghatak R.	Satellite Communication	GNSS and Wireless Communication and Networking Seminar (IGSWN 2018)	Dr. B C Roy Engineering College	17th Feb 2018
Mahanti, G. K.	Array Antenna Synthesis using Evolutionary algorithms	TEQIP-II sponsored short term course on Recent Trend in Microwave, Antenna and Wireless communication	Cambridge Institute of Technology, Ranchi	2017

Department of Humanities & Social Sciences

Name of the faculty	Title of the lecture	Programme	Place	Date
Sengupta, P.P.	Digitalization, Financial Inclusion & Inclusive Growth: India	Invited Lecture at NSHM Knowledge Campus Durgapur	NSHM Knowledge Campus Durgapur	February 2018

Department of Management Studies

Name of the faculty	Title of the lecture	Programme	Place	Date
Bandyopadhyay Gautam	Project management – PERT/CPM	Project management – PERT/CPM on 9th August, 2017 at NPTI (ER) DURGAPUR	NPTI DURGAPUR	9th August, 2017
Bandyopadhyay Gautam	lecture for 2- full day Faculty development Program (FDP)	lecture for 2- full day Faculty development Program (FDP)	Globsyn Business School	3rd October, 2017
Bandyopadhyay Gautam	Orientation Program conducted	UGC- Human resource development Centre (HRDC)	Sambalpur University	24th February, 2018
Bandyopadhyay Gautam	lecture on SPSS	lecture on SPSS	Kolkata Society for Asian Studies(KSAS)	27th November' 2017
Bandyopadhyay Gautam	Accounting Polices & Practices & Analysis of Financial Statement	Accounting Polices & Practices & Analysis of Financial Statement	NPTI (ER) DURGAPUR	28th July,2017
Bandyopadhyay Gautam	lecture on Research Methodology	lecture on Research Methodology Workshop	New Alipore College	17th March '2018
De Anupam	Advanced Excel	Skill Development and Practices Advanced Excel (SSDPAL 2017	NIT, Durgapur	17th April, 2017
De Anupam	Cost Control, Budget & Budgetary Control	Training Programme for Junior Engineers of Jharkhand Urja Vikas Nigam Limited (JUVNL)	National Power Traning Institute, Durgapur	27th July, 2017
De Anupam	Working Capital Management & Taxation	Training Programme for Junior Engineers of Jharkhand Urja Vikas Nigam Limited (JUVNL)	National Power Training Institute, Durgapur	27th July, 2017
De Anupam	Cost Control, Budget & Budgetary Control	Residential Training Programme for Assistant Executive Engineers of Jharkhand Urja Vikas Nigam Limited (JUVNL)	National Power Training Institute, Durgapur	7th August, 2017
De Anupam	Working Capital Management & Taxation	Residential Training Programme for Assistant Executive Engineers of Jharkhand Urja Vikas Nigam Limited (JUVNL)	National Power Training Institute, Durgapur	8th August, 2017
Ghosh Amlan	Accounting Polices & Practices & Analysis of Financial Statement	Accounting Polices & Practices & Analysis of Financial Statement	NPTI (ER) DURGAPUR	28th July,2017
Ghosh Amlan	Fintech revolution and Banking Industry	Recent Innovation in Mnagement	University of North Bengal	22nd -24th Nov 2017
Ghosh Amlan	Does insurance reforms delivered the deliverables	Integrated Financial Sector Reforms in India	Indian Accounting Association, South Bengal Branch In collaboration with The Institute of Cost Accountants of India	24th February, 2018

Department of Mathematics

Name of the faculty	Title of the lecture	Programme	Place	Date
Bagchi, S.	Generalized twisted centralizer codes	Visva Bharati meet on Algebra and its Applications (VBMAA-2018)	Department of Mathematics, Visva Bharati University, India	March 24-25, 2018
Dey, L.K.	On teaching learning process	Teachers' Workshop	Mount Litera Zee School-Maheshtala, Kolkata, India	October 28, 2017
Dey, L.K.	Kannan type contractive mapping in non-compact metric spaces	International Conference on Mathematical Analysis and Applications in Modelling (ICMAAM 2018)	Department of Mathematics, Jadavpur University	January 01, 2018
Dey, L..K.	On Kannan type contractive mappings in non-compact metric spaces	Collaborative research visits	Department of Mathematics, University of North Bengal	December 18, 2017
Kar, S.	Stochastic and Fuzzy Optimization	Short term training programme on Nonlinear Analysis and Optimization	Department of Mathematics, Indian Institute of Technology (ISM), Dhanbad	August 18–22, 2017
Kar, S.	Uncertain Mutli-objective Chinese Postman Problem	43rdConference on Uncertainty theory	Department of Mathematical Sciences, Tsinghua University, China	December 09 -12, 2017
Pal. A	Applications of Graph and Fuzzy Graph	Seminar on Applications of Mathematics and Chemistry in Technology and Management	NSHM Durgapur.	November 08, 2017
Pal, A.	Graph Labelling and Its Applications	International conference on current scenario in pure and applied mathematics (ICCSPAM 2018)	Kongunadu Arts and Science College, Coimbatore.	February 14-16, 2018

Department of Metallurgical and Materials Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Mondal, Manas Kumar	Investigation on Mechanical and wear properties of novel in-situ 6351Al-Al4SiC4 composites	National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM –2018)	CSIR-CMERI Durgapur, West Bengal	February 16 - 17, 2018

Department of Mechanical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Hui N. B.	Matlab Simulink	TEQIP-II sponsored	NIT Durgapur	January 15–19, 2018
Karmakar Sujit	CO2 Capture from Thermal Power Plant's Exhaust	2nd International Conference on Energy System Modelling & Optimization (ESMOC 2017)	NIT Durgapur	Dec. 11-13, 2017

Department of Physics

Name of the faculty	Title of the lecture	Programme	Place	Date
Chakraborty, AK	Metal sulphides/graphene nanohybrids in dye sensitized solar cells	9th International Conference on Materials for Advanced technologies (ICMAT)	Singapore	June 18-23, 2018
Chakraborty, AK	Transition metal oxide and sulphide nanostructures as multifunctional material for energy applications	National Conference on Recent Trends in Condensed Matter Physics (RTCMP- 2017)	Bose Institute, Kolkata – 700 009	October 31 – November 3, 2017
Chakraborty, AK	Carbon nanotube and graphene: synthesis, modification and application	Invited Seminar	Calcutta University	March 16, 2018
Chaudhuri, Hirok	Role of NIT Durgapur in the field of Education, Science & Innovation and Technology Transfer through collaboration with various Academic Institutes, Research Organisations and Industries of India, Russia and other countries	International Symposium on Gen Next initiatives for digital India	Hyatt Regency, Kolkata	February 23-24, 2017
Chaudhuri, Hirok	Exploration of Geothermal Power at Bakreswar hot spring site	Brain Storming Session on Environmental Geotechnics	Ronil Resort, Goa	January 24-25, 2017
Chaudhuri, Hirok	Bakreswar-Tantloi Geothermal Area – A Promising Geothermal Resource for Power Generation	International Workshop "Shallow, sub-surface investigation for resource exploration and seismic hazard assessment"	ISR, Gandhinagar	January 19-20, 2017
Chaudhuri, Hirok	Energy	Platinum Jubilee Science Seminar	Suri Vidya Sagar College, Suri, Birbhum, West Bengal	January 14-15, 2017
Kumbhakar P.	Synthesis of some semiconductor nanomaterials and 2D nanocomposites for photo-catalytic removal of dyes from water, fabrication of near-white LED and enhanced nonlinear optical effects	5th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2017)	Indian Institute of Technology Guwahati, Guwahati-Assam, India	Dec. 18-21 2017

Name of the faculty	Title of the lecture	Programme	Place	Date
Kumbhakar, P.	More with Less! A Journey to Nanoworld: Recent Trends in Photonics with Nanotechnology	One-day seminar on Recent Trends in Physics	Dept. of Physics, Golapbag, Burdwan University, Burdwan	Feb. 27, 2018
Kumbhakar, P.	Nonlinear Optical and Photocatalytic Properties of 2D Nanostructures of GO–ZnS/ZnO QDs nanocomposites and MoS2 nanosheets	National Conference on Graphene and Functional Materials (NCGFM-2018)"	CSIR-Central Mechanical Engineering Research Institute, Durgapur	Feb., 23–24, 2018
Kumbhakar, P.	Nonlinear Optical, UV-Vis Absorption and Photoluminescence Spectroscopic Techniques for Determination of Optical Properties of Some Semiconductor and 2D Nanocomposite Materials	National Conference on Advances in Spectroscopic Techniques and Materials (ASTM-2018)	Department of Applied Physics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand	March 14-16, 2018
Kumbhakar, P.	Development of Leadership Skills and the Role of Photonics in Advancement of Civilization	One day awareness workshop on "NMEICT and related issues"	Ramanagar College, Purba Medinipur	Feb. 16, 2018
Kumbhakar P.	Leadership Development for Digital India	AICTE sponsored Short term course on "Soft Computing & Optimization Techniques in Engineering & Engineering Science (SCOTEES 2017)"	QIP Cell, NIT Durgapur	Oct. 11, 2017
Kumbhakar P.	Role of Leadership on Technology Revolution: Awareness on NMEICT Programme	Awareness Programme "NMEICT and Related Issues"	Sundarban Mahavidyalaya, Kakdwip	Sept 9, 2017
Meikap A.K.	Disorder and Temperature Dependence Dephasing Scattering Rate of Disordered alloys at Low Temperature	Recent Trends in Condensed Matter Physics (RTCMP- 2017)	Bose Institute, Kolkata – 700 009	October 31 – November 3, 2017
Mondal A.	Fascinating GLAD Technique for hetero nanowire and nanowire fabrication aimed at optoelectronic devices	International Conference on Sculptured Thin Films (GLAD 2018)	Indian Institute of Technology Delhi	30-31st March 2018.
Mondal A.	Nanowire and thin film based photodetector	National Level Workshop on Recent trends in nanoelectronics	National Institute of Technology, Nagaland	26-28th April 2018.
Sahoo S.	Some recent advances in high energy physics	National Seminar on "Recent Advances in Physics and its Applications"	BJB Autonomous College, Bhubaneswar	11th February, 2018

Annexure 11.16(g). Session chair/convenor (Sort alphabetically by column 1, surname)

Department of Biotechnology

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Dey, A.	Session Chair	Sustainable Advanced Technologies for Environmental Management (SATEM-2017) in Technical Session V: Advanced Wastewater Treatment	Civil Engineering Department, IIEST Shibpur	-	29th June 2017
Ghosh, Monidipa	Session Chair	World congress on Genetics, Genomics And Personalized Medicine-2017 having theme Emphasizing the Knowledge of Personalized Medicine, 4th International conference	IISc, Bengaluru Karnataka, India	-	November 15-17, 2017

Department of Chemical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Ghanta, K.C.	Session Chair	2nd International Conference on Green Energy and Application 2018	NTU, Singapore	Power Engg. and Energy	24-26th March, 2018
Paruya Swapan	Session Chair	CHEMCON 2017	HIT, Haldia, India	Nanotechnology	December 29, 2017
Paruya Swapan	Session Co-Chair	ESMOC 2017	NIT Durgapur	Advanced Control of Energy Systems	December 12, 2017
Mandal T.	Session Chair	Think India Convention 2018	Kolkata		19th March 2018

Department of Chemistry

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Moi S. C.	Section chair	7th International conference on energy, Environment Engineering and management	Canary Island, Spain	2nd day morning section	18th July, 2017
Moi S. C.	Section chair	Two days SERB-DST sponsored National seminar.	TDB College Ranigang, West Bengal	1st day after lunch section	5th March, 2018
Moi S. C.	Section chair	World Cancer Submit and Drug Discovery and Drug Delivery Congress.	Science City Kolkata, West Bengal, India	2nd day lunch section	21st Sept. 2017
Moi S. C.	Section chair	National symposium sponsored by DST, Government of India.	Raiganj University, North Dinajpur, WB	After lunch section on 21st March'18	21st March, 2018

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Saha R N	Session Chair	Third International Conference on the theme "Mother Earth: Environmental Crisis & Sustainable Strategies"	Environmental Sc., Burdwan University Campus	Wastewater Treatment	January 11, 2018
Sukul D	Session Chair	7th International conference on energy, Environment Engineering and management	Canary Island, Spain	1st day pre-lunch section	19th July'2017

Department of Computer Science and Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Chandran, S.	Session Chair	5th International Conference On Emerging Trends in Engineering science Technology	Thrissur, Kerala	Image Processing	19-01-2018
Dalui, M.	Session Chair	Fifth International Conference on Emerging Applications of Information Technology (EAIT 2018)	IIEST Shibpur	Cellular Automata	January 12-13, 2018
Dutta A.	Session Chair	ICAART 2018	Portugal	2017-2018	16-18 January,2018
Kisku, D.R.	Session Chair	7th International Symposium on Embedded computing and system Design (ISED	NIT Durgapur	Computer Vision & Image Processing	December 18-20, 2017
MItra, D.	Session Chair	Int'l Symp. on Embedded computing & system Design (ISED 2017)	Durgapur	Digital System Design and Validation (DSD)	Dec 19, 2017
Mukhopadhyay, S.	Session Chair	The 6th International Conference on Emerging Internet, Data & Web Technologies	Polytechnic University of Tirana, Albania	Multimedia Networking and Medical Applications	March 15-17, 2018

Department of Civil Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Roy, P	Session Chair	3rd Indian Conference on Applied Mechanics (INCAM 2017)"	MNNIT Allahabad, UP, India	Session 6 Theme: Interdisciplinary	July 07, 2017

Department of Electrical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Banerjee S	Session Chair	IECON 2015	Yokohama-city, Kanagawa, Japan	Power Electronic Converters III	9th -12th Nov, 2015.
Acharjee P.	Session Chair	IEEE Conference on Microelectronics, Computing and Communication (MicroCom)	ECE Dept., NIT Durgapur,India	ECPGL: TS-2 Track: Power Electronics and Power Systems'	23rd January, 2016
Acharjee P.	Session Chair	IEEE Conference on Microelectronics, Computing and Communication (MicroCom)	ECE Dept., NIT Durgapur,India	ECPGL: TS-5: Track: Control Systems	24th January, 2016
Saha T K	Session Chair	MicroCom 2016	Durgapur, 2016	Power Electronic Converters III	23rd to 25th Jan 2016.

Department of Electronics and Communication Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Kar R.	Session Chair	TENCON 2017	Penang	Signal Processing	5 - 8 November 2017

Department of Mathematics

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Kar, S.	Convenor	National Seminar on Fuzzy Set Theory and Applications	Dept. of Mathematics, NIT Durgapur	--	30th November – 2nd December 2017
Pal, A.	Session Chair	International conference on current scenario in pure and applied mathematics (ICCSPAM 2018)	Dept. of Mathematics, Kongunadu Arts and Science College, Coimbatore	2:30 p.m-4:30 p.m	15th February, 2018

Department of Mechanical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Rana S. C.	Chairman and judge on scientific session	2nd Regional Science and Technology Congress, Western Region.	University of Burdwan	Poster competition	November 16 -17

Department of Metallurgical and Materials Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Mandal D	Session Chair	Behind the Teacher's Desk 2017	CSIR-NML, Jamshedpur	Evaluation of Materials	22-23 June 2017
Mondal, Manas K.	Session Chair	International conference on sustainable, manufacturing, Automation and Robotics Technologies (IC-SMART-2017)	CSIR-CMERI Durgapur, west Bengal	Product and Process Engineering	December 15-16, 2017
Mondal, Manas K.	Session Chair	National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM –2018)	CSIR-CMERI Durgapur, west Bengal	Materials Development & Characterization	February 16 - 17, 2018

Department of Physics

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Chakraborty, AK	Session Chair	9th International Conference on Materials for Advanced Technologies (ICMAT)	Singapore	Session-1, Symposium F	22/06/17
Kumbhakar P.	Session Chair	5th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2017)	Indian Institute of Technology Guwahati, Guwahati-Assam, India	Hall-3 Session	Dec. 20 2017
Kumbhakar, P.	Session Chair	National Conference on Graphene and Functional Materials (NCGFM-2018)"	CSIR-Central Mechanical Engineering Research Institute, Durgapur	Plenary Session-I	Feb. 23, 2018
Kumbhakar, P.	Session Chair	National Conference on Advances in Spectroscopic Techniques and Materials (ASTM-2018)	Department of Applied Physics, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand	Young Scientist's session	March 16, 2018

Annexure 11.17 Other information

Department of Chemistry

- Prof. B.P. Mukhopadhyay acted as chief guest at Nirjhar Day Boarding H.S. School on 19th, April,2017
- Dr. S.C. Moi has won Best speaker award with Gold Medal in World Cancer Submit and Drug Discovery and Drug Delivery Congress (an International Coference) in Science City Kolkata, WB, India, 20-22nd September'2017.
- Dr. S.C. Moi has received Outstanding reviewer award in 2017-18 in International Journal (Elsevier).

Department of Chemical Engineering

1. Mr. Gaurav Sen, B.Tech in Chemical Engineering from NIT Durgapur in 2017, has won Ambuja's Best Home Paper or Design Project Report Award (2nd Prize) for his Home Paper Project on 'Bioremediation of Cr(VI) using Live Cyanobacteria: Experiment and Kinetic Modeling' in Final Degree Examination of Chemical Engineering, 2017 under the guidance of Dr. Susmita Dutta.

Department of Civil Engineering

1. Member, Central Purchase Committee NITD Dec 2017
2. Member of STUDENTS GRIEVANCE CELL 24-4-2017
3. Coordinator for PROJECT PROPOSAL /Centre for Biomedical Engineering & Assistive Technology (BEAT) Under Higher Education Financing Agency (HEFA), GOI.
4. Member, Enquiry committee for the CBI case for Construction work of SN Roy Memorial Building OO 14-03-2018

Department of Computer Science and Engineering

1. Dr. G. Sarker has joined the International Journal of Decision Support System Technology (IJDSST) of IGI Global as a reviewer.
2. Dr. G. Sarker has joined the International Journal of Computer Vision and Image Processing (IJCVIP) of IGI Global as a reviewer.
3. Mitra, D. served as a member of Technical Program Committee for 21st International Symposium on VLSI Design and Test (VDAT 2017).
4. Mitra, D. served as a member of Technical Program Committee for 7th International Symposium on Embedded computing & system Design (ISED 2017).
5. Mitra, D. served as Publication Chair of 7th International Symposium on Embedded computing & system Design (ISED 2017).

Department of Mathematics

1. Dr. Seema Sarkar (Mondal) acted as judge for Science Project Competition in NSHM Knowledge Campus, Durgapur on 12 January, 2018.

Department of Mechanical Engineering

1. Pramanick Achintya Kumar was a Member of the Scientific Committee, Constuctal and Second Law Conference 2017, 15-16 May 2017, Bucharest, Romania.

Department of Management Studies

1) Acted as an observer for the all India Chartered Accountants Examination of the Institute of Chartered Accountants of India (a statutory body established by an Act of Parliament) for November 2017 during 1st November to 3rd November, 2017.

Department of Physics

1. Prof A K Meikap Ph.D. thesis examiner of University of Kalyani, Kalyani
2. Prof A K Meikap Ph.D. thesis examiner of National Institute of Technology Raipur
3. Prof A K Meikap Ph.D. thesis examiner of Pondicherry University, Pondicherry
4. Prof. A. K. Meikap acted as a Judge for projects presented by Child Scientists in the District Level Congress of the 25th National Children's Science Congress, held at DAV Model School, Durgapur on 20th August, 2017.

5. Prof. P. Kumbhakar, Dept of Physics on 12.01.2018 acted in the panel of judges for judging the Science Project Competition, at NSHM Knowledge Campus , Arrah Shibtala, Muchipara, Durgapur, organized by NSHM
6. Prof. P. Kumbhakar, Dept of Physics acted as Member of Interview Board for Selection of Physics and Chemistry Teachers of Goenka International School of Durgapur, held on 27.01.2018
7. Prof. P. Kumbhakar, Dept. of Physics acted as Subject Expert of Physics for Recruitment of Teachers of DAV Model Schools for 2018-19 session on March 17, 2018 held at DAV Model School Durgapur.
8. Dr. S. Sahoo acted as an evaluator (Judge) for projects presented by Child Scientists (Age group 12–17) in the District Level Congress of the 25th National Children's Science Congress, 2017, held at DAV Model School, Durgapur on 20th August, 2017.
9. Dr. S. Sahoo acted an observer for UGC-NET-2017 held on 05/11/2017 (Sunday) at Hem Sheela Model School Durgapur.
10. Dr. S. Sahoo acted an observer for State Govt. Common Entrance Test conducted by Association of Minority Professional Academic Institutes (CEE-AMPAI-2017), West Bengal, India on 14/05/2017 (Sunday). Centre: Dr. B. C. Roy Engineering College, Durgapur - 713206.