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2011-2012

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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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Progress at a Glance (2011–2012)

- NIT Durgapur has completely implemented the reservation for OBC students (27%) in UG and PG programmes.

- The Institute initiated activities in TEQIP-II, a World Bank assisted programme for improvement in quality of technical education.

- A new M. Tech. programme in Software Engineering was introduced by Department of Computer Applications in the session 2011-12.

- 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.

- Department of Physics was selected in the FIST programme of Department of Science and Technology, Government of India.

- Forty eight sponsored projects are being executed by the faculty members presently.

- The faculty members of the Institute have publication and acceptance of 336 papers in peer-reviewed journals and also published 356 papers in proceedings of national and international conferences in 2011-12 vis-a-vis 318 and 387 in 2010-11.

- Faculty members acted as reviewers for 168 peer-reviewed journals and books.

- Two hundred and eleven PhD regisered research scholars are carrying out doctoral research.

- Twenty four scholars were awarded PhD degree by the Institute in 2011-12.

- Out of 590 B. Tech. students, 498 have been placed through in-campus interviews in the session 2011-2012. In addition, 117 students got their second job.

- In 2011-12 three pre-final year students did the summer internship at CERN, Geneva. Four students did internship in Germany, including DAAD and five students went to NUS, Singapore for internship. Altogether, 21 students participated in summer internship abroad in different universities in USA, Sweden, Italy, France, etc. Six students presented papers in international conferences abroad.

- The Institute organized "INSPPIRE" programme, sponsored by DST. Two Hundred and twenty eight school students participated in the programme where eminent scientists from different parts of the country addressed them.

- The seventh Convocation of the Institute was held on September 24, 2011 in which His Excellency Shri M. K. Narayanan, Hon'ble Governor, West Bengal delivered the Convocation Address as the Chief Guest. The Guests of Honour were Professor (Dr.) Günther Rosner, Director Research, FAIR, GSI Darmstadt, Germany and Shri S. Thakur, Distinguished Scientist & Fellow, Nuclear Power Corporation of India Ltd. Dept. of Atomic Energy and Former Executive Director (Corporate Planning & Corporate Communications), NPCIL. Professor Bikash Sinha, Chairman, Board of Governors, presided over the function.

- National Institute of Technology Durgapur was mentoring the newly established NIT, National Institute of Technology Arunachal Pradesh since its inception and charges were finally handed over by Mentor-Director, Director, NIT Durgapur to Director, NIT Arunachal Pradesh on November 01, 2011.

- National Institute of Technology Durgapur is still mentoring another newly established centrally-funded technical institution, Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal.

ANNUAL REPORT 2011–2012

1.0 INTRODUCTION

1.1 Mission Statement

The mission of the Institute is to spread education amongst the students coming from all over India and overseas with diverse social and cultural backgrounds to make them enlightened, enriched, and efficient, so that they can cater to the need of the country, society, and the human race.

1.2 Objectives

- To modernise the existing laboratories by procuring state-of-the-art equipment
- To set up new laboratories in the emerging areas
- To develop competency of the faculty, officers and staff through training programmes
- To improve teaching-learning process
- To foster research and consultancy
- To collaborate with other institutions and industries
- To revamp the existing curriculum and syllabus of undergraduate and postgraduate programmes with emphasis on market-driven and need-based courses.

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

1.4 New Initiatives

NIT Durgapur successfully participated in the World Bank-funded Technical Education Quality Improvement Programme (TEQIP) as a lead institute and improved its academic infrastructure and quality of human resources. The Institute has started its activities in TEQIP-II as well. Over the last few years NIT Durgapur gradually evolved from a teaching-centric institution to an institution focusing on both teaching and reearch. 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 in 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, Oman, National University of Singapore, and many other academic institutions all over the world and industries like Durgapur Steel Plant. Internship was arranged for the undergraduate students in CERN, Geneva, Germany (DAAD programme) and NUS Singapore. New M. Tech. programmes in Biotechnology, Environmental Science and Technology and Software Engineering and M.Sc. programmes in Physics, Chemistry and Mathematics with Computer Applications were also introduced. 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. The Institute has also completely implemented the reservation for OBC students (27%) in UG and PG programmes.

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 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, Metallurgy, 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, many of which are industry-oriented. 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 NH 2, and there is a military airport at Panagarh, only 20 km from Durgapur. The place is only an hour's drive from Tagore's Santiniketan 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:

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 courses in Bio-Technology, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical Engineering, Mechanical Engineering, Metallurgical & Materials Engineering and Information Technology. The duration of each course is four academic years. 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.

It also offers Four and Six Semester M. Tech. courses. Total number of M. Tech. courses on the offer is sixeen.

    A three-year full time MCA course has been on the offer since the year 2000.
    A two-year full time MBA course has been on the offer since the year 2004.
    Two-year full time M. Sc. courses in Physics and Chemistry have been on the offer since 2009.
    Two-year full time M. Sc. course in Mathematics has been on the offer since 2010.

2.6.   Courses Offered:
2.6.A. Under-Graduate Programmes:

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

	Departments	Degree Offered	Sanctioned Intake
1	Bio-Technology	B. Tech.	92
2	Chemical Engineering	B. Tech.	62
3	Civil Engineering	B. Tech.	62
4	Computer Science & Engineering	B. Tech.	92
5	Electronics & Communication Engineering	B. Tech.	92
6	Electrical Engineering	B. Tech.	92
7	Information Technology	B. Tech.	92
8	Mechanical Engineering	B. Tech.	139
9	Metallurgical & Materials Engineering	B. Tech.	77
	Total		800

In addition, 60 – 70 seats are filled up by foreign students nominated by the Government of India under various schemes. 50% of the seats are reserved for candidates from West Bengal. 3% of the seats are reserved for physically handicapped candidates from West Bengal. Admission of these categories is in addition to the sanctioned intake. The remaining 50% seats have been allotted to different states and union territories on population basis. 15% and 7.5% of the total seats are reserved for SC candidates and ST candidates, respectively.

2.6 B. Post-Graduate Programmes

(a) Full-time programmes
   The Institute offers 16 (sixteen) four-semester M. Tech. programmes, six-semester MCA, four semester MBA and 3 four-semester M. Sc. Programmes.

(b) Part-time programmes
   The Institute offers six-semester part-time postgraduate programmes leading to M. Tech. degree in eight specializations as mentioned in the table hereunder.

Eligibility

M. Tech. Programmes:

(i)   Departments of Chemical, Civil, Electrical and Mechanical Engineering: B.E. / B. Tech in respective branch of Engineering; or equivalent AMIE (I), AMIIChE, etc. with two years of professional experience.

(ii)   Department of Computer Science & Engineering: BE/ B. Tech in CSE, Information Technology, Electronics, Electrical Engineering; or equivalent AMIE (I) in respective branch with two years of professional experience.

(iii) Department of Electronics & Communication Engineering: (a) Specialization in *Telecommunication Engg*: B.E./ B. Tech. or equivalent degree in ECE. (b) Specialization in *Microelectronics & VLSI*: B.E./ B. Tech. or equivalent degree in ECE/ CSE/EE/ Electronics & Instrumentation Engineering.

(iv) Department of Information Technology: B.E./ B. Tech. in IT/ CSE/ ECE/ EE or Instrumentation Engineering.

(v)   Department of Metallurgical & Materials Engineering: (a) Specialization in *Materials Engineering*: BE / B. Tech. in Metallurgical & Materials Engineering, Mechanical Engineering and M. Sc. in

Applied Physics; or equivalent AMIE (I), AMIIM, etc. with two years of professional experience. (b) Specialization in *Industrial Metallurgy*: B.E./ B. Tech. or equivalent in Metallurgical & Materials Engineering, Mechanical Engineering and Production Engineering; or equivalent AMIE (I), AMIIM, etc. with two years of professional experience.

(vi) Department of Chemistry (Corrosion Science and Technology): M. Sc. in Chemistry (Pure/applied) or BE/ B. Tech. in Chemical Engineering; or AIC (I) with two years of professional experience.

(vii) Department of Physics (Advanced Materials Science and Technology): M. Sc in Physics/ Applied Physics/ Electronics or BE/ B. Tech. in Metallurgical Engg. / Materials Engg./ Electronics & Communication Engg. /Mechanical Engg. /Electronics Engg. / Instrumentation Engg. with at least 55% marks or equivalent grade.

(viii) Department of Mathematics (Operations Research): Degree in any branch of Engineering / Technology/ MCA / M. Sc or equivalent AMIE (I), IIM (I), etc. with two years of professional experience with Mathematics in graduation level.

(ix) Department of Biotechnology: B. Tech degree in Biotechnology/ Bioinformatics/ Biochemical Engineering/ Food Technology/ Chemical Engineering/ Pharmacy having 65% marks from any recognized University/ Institute.

(x) Department of Geology (Coordinating department for Environmental Science & Technology): B. Tech./ B.E. in Chemical / Civil/ Mechanical/ Metallurgical / Biotechnology/ Lather Tech./ Food Tech. / Environmental / Pharmacy/ Agricultural / Mining/ Biochemical Engineering with 60% marks; M. Sc. in Environmental Sc./ Chemistry/ Physics/ Geology/ Bio-sciences/ Agricultural Sc. with 55% marks [with mathematics as one of the subject at least up to Higher Secondary level (10+2 Examination)].

(xi) Department of Computer Applications (Software Engineering): B. Tech. in any discipline or MCA from any recognized university. Preference will be given to candidates having valid GATE score in CS code.

M.Sc. Programmes:

Three-year regular B. Sc. (Hons./ Pass) with minimum 55% marks in the relevant subject.

Sanctioned intake of the Post-Graduate Programmes:

M. Tech.

SL. NO.	Specialization (Department)	Full time Non-sponsored				Full time Sponsored	Part time	Total
		Open	SC	ST	OBC			
1	Biotechnology (Biotechnology)	08	02	01	04	05	0	20
2	Chemical Engineering (Chemical Engineering)	05	03	01	04	05	05	23
3	Corrosion Science & Technology (Chemistry)	05	03	01	04	05	05	23
4	Structural Engineering (Civil Engineering)	05	03	01	04	05	05	23
5	Software Engineering (Computer Applications)	08	02	01	04	05	00	20
6	Information Technology (Computer Science & Engineering)	10	03	01	04	05	00	23
7	Electrical System (Electrical Engineering)	05	03	01	04	05	05	23
8	Telecommunication Engineering (Electronics & Communication Engineering)	10	03	01	04	05	00	23
9	Microelectronics & VLSI (Electronics & Communication Engineering)	10	03	01	04	05	00	23
10	Environmental Science & Technology (Geology: Coordinating department)	08	02	01	04	05	00	20

SL. NO.	Specialization (Department)	Full time Non-sponsored				Full time Sponsored	Part time	Total
11	Information Security (Information Technology)	10	03	01	04	05	00	23
12	Operations Research (Mathematics)	05	03	01	04	05	05	23
13	Design & Production Engineering (Mechanical Engineering)	05	03	01	04	05	05	23
14	Industrial Metallurgy (Metallurgical & Materials Engineering)	05	03	01	04	05	05	23
15	Physical Metallurgy (Metallurgical & Materials & Engineering)	05	03	01	04	05	05	23
16	Advanced Materials Science & Technology (Physics)	10	03	01	04	05	00	23
	TOTAL	**114**	**45**	**16**	**64**	**80**	**40**	**359**

Other Post-Graduate Programmes:

SL. NO.	Specialization (Department)	Full time				Total
		Open	**SC**	**ST**	**OBC**	
1	Master of Business Administration (MBA)	46	14	7	25	**92**
2	Master of Computer Applications (MCA)	46	14	7	25	**92**
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**
		122	**37**	**20**	**65**	**244**

2.7 Admission Procedure

2.7 A. Under-Graduate Programmes:

Students are admitted exclusively through All India Engineering Entrance Examination (AIEEE) conducted by Central Board of Secondary Education (CBSE), New Delhi. The Seat Distribution Matrix is guided by Ministry of Human Resource Development (MHRD), Government of India.

2.7 B. Post-Graduate Programmes:

There are seven types of post- graduate students. Mode of Admission is detailed hereunder.

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

2.8 Students

Eight hundred and nineteen students were admitted in under–graduate courses in the year 2011-12. Three hundred and ninety four students came from the state of West Bengal while 394 students came from other 27 states of India. In addition, 31 students were admitted from foreign countries like Nepal, Bhutan, Bangladesh, Afghanistan, Mauritius, Zimbabwe, Vietnam, Mongolia, Kenya, etc.

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 total intake capacity of 1403 (800 Under-Graduate Indian Students and 603 Post-Graduate Indian Students) in the year 2011 in various branches of Engineering at undergraduate and postgraduate 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 several prizes and awards in various other institutes like Indian School of Mines Dhanbad, IIT Roorkee, IIT Delhi and many such technical organizations and forums as Engineering Fairs organised by the Birla Industrial & Technological Museum, National Council of Science Museums, Government of India and many more. The NIT Durgapur is proud of producing the brains more than 90% of which gets employed by campus interview itself. Some of the alumni are in the higher ranks in the organisational hierarchy of the corporate sectors in Europe and the USA.

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Extracurricular Activities:

i. Centre for Cognitive Activities

Centre for Cognitive Activities Is the official science club of NATIONAL INSTITUTE OF TECHNOLOGY-DURGAPUR in its incumbency of 38 years, the club has produce opportunities and generated scope for the ignited minds to not only nourish and nurture their scientificknowledge and technical acumen but also the business aptitude from time to time the club has polished its facilities to keep in pace and in some way even move ahead of the existing colonies of science. Actingas an arena for the fiends of science, the crazy going spirit of theclub and its members is responsible for making this club the 2ndlargest in eastern India. The club consists of 5 sections namely CORE, ROBOCELL, DESIGNING, WEBDEVELOPEMENT AND E-CELLwhich together formulate all the inventoriesof the year. Every year the club organizes loads of periodic workshopsand lectures by proficient professionals and eminentpersonalities.These may include robogyan, a robotics workshop and B-plan workshops by E-cell.ADOBE INDIA organizes workshops on web development,ethical hacking and Photoshop. These workshops are veryinteractive and a hand on experience for the students. The club is alsoresponsible for organizing science exhibition and seminar by IEEE. Other events includes a robotics fest called ROBOCITY. Workshopsand lectures on programing, coding, gaming etc. The main and the most awaited highlight of the year is the techno-management fest of the college organized completely by the CCA.The 3-4 days of extravaganza speaks out the dauntless spirit of the youths. Plethora of events and competitions on robotics, programming, gaming-plan, marketing strategy etc. are topped with handsome prize money. These events are surrounded by guest lectures and summits.Past eminents including Harry Croto (Nobel laureate), Prof Anil K Gupta and Prof Sunil Handa (IIM-A), irfanalam etc.the celebrations end with Arohannites stuffed with dj danceperformances laser shows etc.

ii. SAE- Society for Automotive Engineering (NIT Durgapur Chapter)

Archimedes once famously remarked "Every new idea is impossibility until it is born". These ideas form the pillars of brilliance and since its inception in 2007, the SAE India Collegiate Chapter has done just that and more, to anchor itself as an indispensable forum in the hearts and minds of all avid auto enthusiasts.

Shifting gears from a regular academic life, the chapter has empowered students to drive into faster lanes with the confluence of innovation, knowledge, application and skill under the same hood. Under the guidance of an unparalleled mentor group, the club has continued the legacy of its explosive ignition four years ago, successfully drawing curtains on its unique auto fest "Motor Zundung 4". Held between the 3rd and 5th of February, 2012, Motor Zundung stood for the endeavor to appreciate raw

talent and give budding technocrats a feel of real-time automotive acumen with a plethora of online gaming events on FIFA 11 and NFS Most Wanted, robotic events like Go-Drafting, Relay Race, Robowars andDahiHundi, non-robotic events including Auto Quiz, Schaffer, Jig for a Jigsaw and even a mini auto-expo, courtesy the flagship event- Transmission. With interactive workshops and guest lectures, Motor Zundung 2012 blazed through all tracks of unmatched *esprit de corps* to help this chapter transcend the realms of mechanical engineering alone.

With sponsorships from Tata Motors, Toyota and Fiat to boast of, plans of participating in the Baja SAE India-one of India's biggest automobile project platforms and unveiling of the first-of-its-kind wall magazine "Autopia", the SAE India Collegiate Chapter of NIT Durgapur is all set to surge ahead in the years to come.

iii.   IEEE Students' Chapter

It was formed on 25th February 2009. This 'exemplar par excellence' was made possible with active cooperation from students and the effective guidance of the faculty members. IEEE-The Institute of Electrical and Electronics Engineering is the world's largest technical organization whose foundation stone was laid by stalwarts like Thomas Alva Edison. We have started this branch with a gigantic strength of 123 members and are still counting. We are supposedly one of the largest student branches in Eastern India at the beginning. In coincidence with the goal of IEEE this student branch constantly strives for fostering technical excellence and innovation in the service of humanity. This student branch aspires to emanate an aura of technology and innovation which would enrich the environment with the vibe of rational and scientific thinking. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities. We added another feather in the cap of NIT Durgapur this year by organizing a second edition of mega conference of international level INTERNATIONAL CONFERENCE ON EMERGING TRENDS (ICET-2012).

iv.   GNU/Linux Users' Group

Established in the year 2003 with only a handful of enthusiasts, GNU/Linux Users' Group, NIT Durgapur, spearheads the FOSS curriculum in the college premises. It is now a full-fledged association of more than 200 members, encompassing not only students of NIT Durgapur but also students from near-by institutes and free software hackers/activists from various places in India.

The group works towards promoting the usage of Linux through various informative workshops, basic Linux classes and conducting courses all round the year. All this brought to the club, an enormous response as we witnessed the largest number of registrations since the club's inception. Successful installation of the Linux operating system has been done in the CSE/IT departments and amongst the students by the LUG core committee members.

Mukti, the annual FOSS festival of NIT Durgapur, primarily aims at promoting the concept of free software through various contests, games, workshops, talks and a kaleidoscopeof onsite and off-site events, Codecracker being a huge success.

This year we also played host to some stalwarts of the open source world like Smit Shah who conducted a workshop on KDE Development, and Ravi Vyas who conducted three sessions of the Android workshop in a single day.

v.   Maths 'N' Tech club

Mathematics is, undoubtedly, the most ancient yet most intriguing of all sciences ever developed by humans. Even in today's brutally competitive world, where economies fall like stash of dominoes, mathematics retains its significance as a pre-requisite to being successful, be it in corporate world or financially ascetic but astute technocratic circles.

Creativity when spiced with technology inter-relates knowledge with society and the environment, the basic thing that one needs for survival in this world. It's not only "1+1=2" that the club aims for but also encourages technical thinking and application of practical sciences.

At Math's 'N' Tech Club, we realize this requirement to exposure to analytical reasoning and lateral thinking by organizing a multitude of events that flame the spark of interest in adventurous souls studying engineering at NIT Durgapur.

Established in 2004, the Maths 'N' Tech Club was initially conceived with the idea of providing a stage for instilling in students a passion for mathematics and technology by underlining its merit and applicability through a plethora of brainy challenges. Due to the uniqueness of the ground we cover, and undaunted support of our outstanding faculty, Maths 'N' Tech Club has grown magnificently over the years, as was evident in the successful conduction of ANK'11, the knowledge fest of NIT Durgapur, organized by Maths 'N' Tech Club, and also the fourth edition of Anveshan, the technical magazine of NIT-D, coming out in print, generating appreciative reviews by a number of national institutions in the field, providing the club – a national recognition.

vi. Music Club

The music club started as an incentive to promote the aesthetic sense amongst the college folks. In its initial years it served as a major platform for students who wished to showcase their talent in and around the campus. It has now spread its wings by conducting events such as the Music Quiz, Antakshari, and the likes. Recstacy over the last few years saw the club hosting "Rockophonix", a band competition where student music bands from Durgapur and Kolkata came to battle it out. One of the most momentous achievements has been the "NIT Idol", which was loosely based on the popular TV show by a similar name. It was held at Recstacy as well. The club also had its members compete in fests outside the campus, like "Springfest" at IIT Kharagpur.

vii. Chayanika

Knowledge and culture is the basis of character building and it is this club that allows the brightest technical minds in the country to showcase nurture and grow their talents. CHAYANIKA aims to patronize the sense of art and culture among the students of NIT Durgapur. It upholds the spirit of the students to participate and thereby exploring the vast cultural diversity that this country has to offer.
The annual cultural programme 'ELIXIER' offers a plethora of cross cultural events for the students. The students and campus residents witness a number of cultural performances by the students, faculty and guest artists.

'ELIXIER 2011' was "cliché unique" for both the club and the students. It had introduced many competitive events which indeed proved to be a learning curve for everyone associated with the festival. 'Cult Athlon' a quizzing event organized and conducted by Club Chayanika and Quiz club throughout the festival intrigued the participants and the viewers. The Movie critic, classical dance, Photography and Painting competitions turned out to be successes as well. The student Drama competition is one event that the students look out for and is one of the most important aspects of every 'ELIXIER'.

The most extravagant offering was the guest performance by Padmashree Pundit Vishwa Mohan Bhatt- Grammy award winner-captivating the audience with his musical brilliance. Classical was never better for NIT Durgapur. The last day calls for some fun, a progressive rock band-Purple Asparagus-was an icing on the cake.

viii. PRAKRITI

PRAKRITI, the environmental club of NIT Durgapur conducted *ruNIT*, a mini marathon, *Greenart*, a poster making competition, environment related essay competition, awareness programme in nearby village of Hatedoba and plantation and cleaning drive in the campus.

ix. Enteract Club

In its incumbency of just 3 years the club has attained new heights of success and achievements. The club not only takes charge of the entertainment arena but also undertakes the awareness part through modes of street plays,drama and through short films. The club has organized plays on Independence day, Republic day, Teacher's day and a street play for NSS (national service scheme). Besides, the club takes active participation in other fests of the college including a stall at ANK and performances at the cultural fest RESCTACY and ELEXIER. More a family, the club members have put up excellent performances at other colleges including street plays and dramas at IIT-KGP SPRINGFEST and even winning first prize at on spot drama event called curtail call. It also participated in RENDEZVOUS at IIT DELHI. In the coming voyage the club ventures to participate in cultural activities of colleges like, IIT KANPUR (ANTARAGNI), ISM DHANBAD. Moreover the club is in extreme verge of bringing out a magazine on drama and culture plus organizing periodic workshops

on the art of drama, etc. Amidst the plethora of success the club aims to make ENTERACT the best dramatic club of nation by redefining drama and culture and taking it to a new scale.

x. Dance Club

The Dance Club, affectionately called DC, was formed in the college in the year 2003-04.The Dance Club, as the name suggests, consists of active members who have keen interest in dance and have been active in promoting it in the college. It also aims at identifying this talent in the students and providing a platform for them to showcase it. Dance forms like B-BOYING, BREAKING, POPPING, STREET DANCE and CLASSICAL are engulfed in our domain, as we believe in bringing variety to the club. DC participated in college events like ANK, AAROHAN and RECSTASY.

This academic year DC undertook many dance ventures. DC was up against professional dance troops of KOLKATA namely, FULL STOP and C.K.N (CRAFTS OF KOMMOTION) and Freaking Twisterz, and held JAMMING sessions. DC was immensely appreciated for its success in the JAMMING event.

DC members participated in SPRING FEST'11 in the events namely, CENTRIFUGE (group dance), STREET DANCE (solo) and TWO FOR A TANGO (duo).

xi. RADIO NITROZ

Running successfully for 4 years, RADIO NITROZ is NIT Durgapur's very own Campus Radio Station. During the 3-4 hour transmission in the evening from Monday to Friday, the campus people are kept updated with campus news, interesting shows, and live discussions. The aim of this programme is to help the audience share their attitudes and views on a common platform.

xii. Literary Circle

Literary Circle of NIT Durgapur is the melting pot for people who think differently. We do things differently. It serves as a platform for the creatively inclined to express themselves in myriad ways, outside the rigors of an engineering students life. Our motto is to think out of the box and think sky high. Amongst other things, we publish two editions of the official college newsletter – the Déjà vu every semester. We also bring out the Yearbook, a collection of memories which is much appreciated, for the graduating batch each year. Verve, the annual literary-cum-youth fest of NIT Durgapur is also conducted by us, with a plethora of events and workshops to enchant and enthrall all. We also started the first Model United Nations Conference in an engineering institute in Eastern India. NITMUN 2011 was an outstanding success with participation from India and abroad.

xiii. Quiz Inc

Quiz Inc is the official quiz club of NIT Durgapur. Throughout the year, it organizes various events, both intra-college and inter-college quizzes, that are not only popular but have been widely acclaimed.

xiv. NSS

National Service Scheme, since its inception in 1969 by central government of India, has been working hard for the welfare of the society and a nation as a whole using the services rendered by the students. NSS is an association with H.O.P.E. foundation had a stall during recstacy for the sale of hand-made toys, candles and other items made by the people working with the foundation. 15th august and 26th January - the two most important days of national integrity were celebrated keeping true to their spirits by organizing a flag hosting ceremony and parade which had students as well as staff participating in it. NSS Durgapur unit in association with The Mission Hospital organized a free heart checkup camp in the D.M. Sen Auditorium within the campus. Special Education camps for the underprivileged students were organized throughout the year during weekends at Behari Mod.

Students' Research Activities

It is quite remarkable that in current years National Institute of technology, Durgapur has seen its budding engineers travelling widely to Indian and foreign   universities for research internship or presenting papers in international conferences. Some the internationally reputed institutes CERN Geneva, University of LUND, Sweden, University of Poitiers, France, University of Technology,

Germany, Stuttgart University, Germany, Asian Institute of Technology, Thailand, University of Agder, Grimstad, Norway, American University of Armenia, Yerevan, Armenia National University Of Singapore, Singapore, Tor Vergata University; Via del Politecnico, Rome, Italy, University of Massachusetts, Amherst, MA USA , University of Auckland, New Zealand, Hamburg University of Technology (TUHH), Germany, Technical University of Chemnitz, Germany, Institute of Technology, Turkey, Leibniz University of Hannover, Hannover, Germany, Universiti Tun Hussein Onn Malaysia, Universitat De Barcelona, Spain, Kyoto University, Japan, State University of New York, Albany NY, USA, University of Technology, Poland, National Dong Hwa University, Taiwan and other institutes. Many other did their internship in the leading technological institutes of India like IISC Bangalore, ISI Kolkata, BARC, CMERI, TIFR, DRDO, JNCASR, ISM, Texas Instruments, IITs and various other reputed corporate companies.

2.9 Examination & Evaluation

The Institute follows semester system of examination.

The undergraduate courses are of eight semester (four year) duration. The Institute has been upgraded to National Institute of Technology, Durgapur with Deemed University status and grade system of evaluation has been adopted for the undergraduate 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 upto the current semester. They are conferred with the degree of Bachelor of Technology (B. Tech.) at the completion of the course.

The postgraduate engineering courses 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). All the students of these postgraduate courses are evaluated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

The Master of Computer Applications (MCA) course is of six semester duration and the students are evaluated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). 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 the students are evaluated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

2.10 Placement

The Institute provides employment opportunities to the students through the Department of Training, Placement, and Students Welfare headed by a Professor, 621 (UG & PG) students have been placed in the academic session 2011-2012. In addition to that 118 (UG & PG) students got a 2nd job. Most of the global players, eg MICROSOFT, AMAZON, DIRECTI, NIVIO, ORACLE FINANCE, AMDOCS, IOCL,HAL, CIL, C-DOT, Balmer Lawrie, DVC , VIZAG STEEL, NMDC, NOVELL, TEJAS NETWORK, WIPRO, IBM, L&T, TCS, MIND TREE, SAMSUNG, CESC, MAHINDRA & MAHINDRA, TATA STEEL, TATA MOTORS, HUL, LAFARGE, AREVA, MARUTI, HERO MOTOR, EXIDE, SIEMENS, ERICSSON, SCHNEIDER ELECTRIC, and many more were the recruiters in recent past who visited the campus for recruitment of the bright students.

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.

The department of Physical Training 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 three gymnasiums equipped with sufficient number of equipments and the playgrounds (The Lords & The Oval) always bubble with outdoor activities like football, cricket, basketball and athletics. Concrete court facilities are also available in tennis, basketball and badminton. Flood light facility is provided to all the outdoor games. The central playground (The Oval) accommodates a standard athletic track, 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 3.1 & 3.2.

2.13 Notable Achievements using Graphs, Charts, Diagrams:
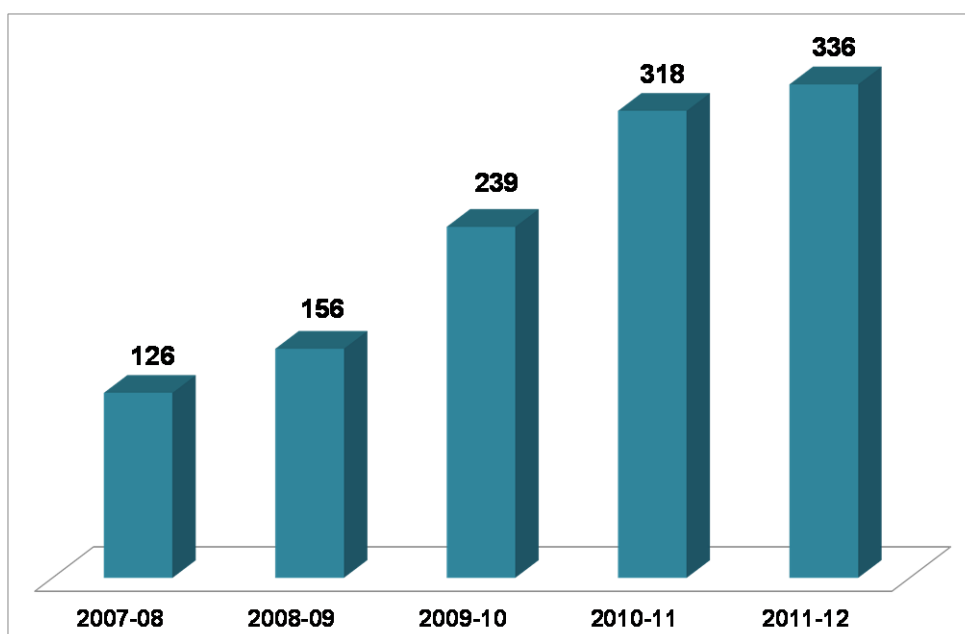
Fig. 1 Publication in journals in the last five years
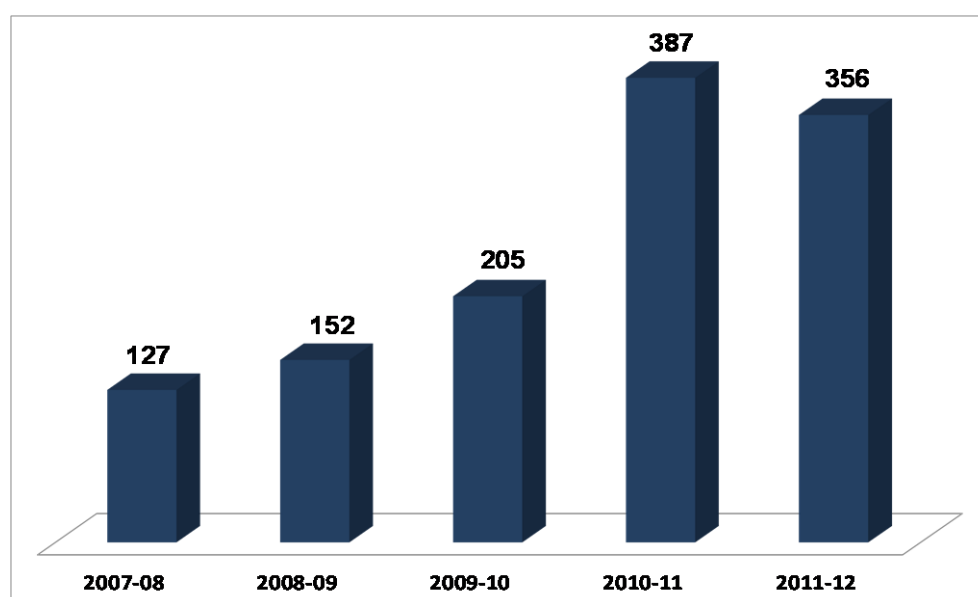
Fig. 2 Publication in conferences in the last five years
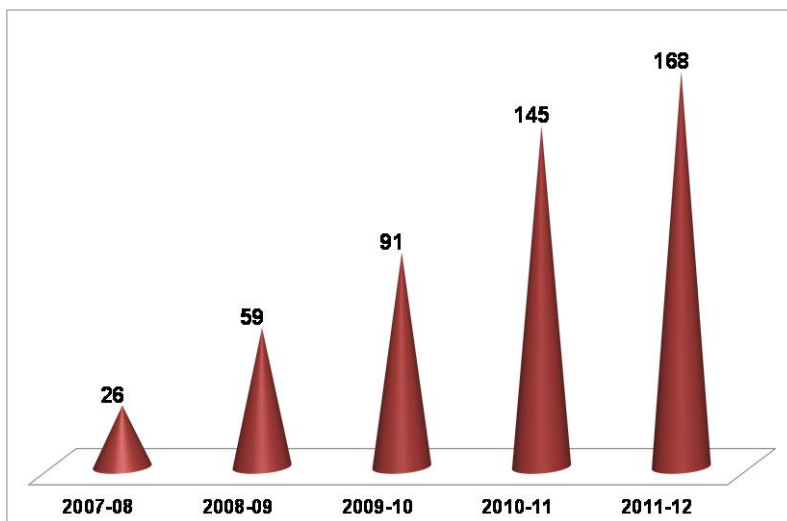
Fig. 3 Reviewers of journals/books during the last five years
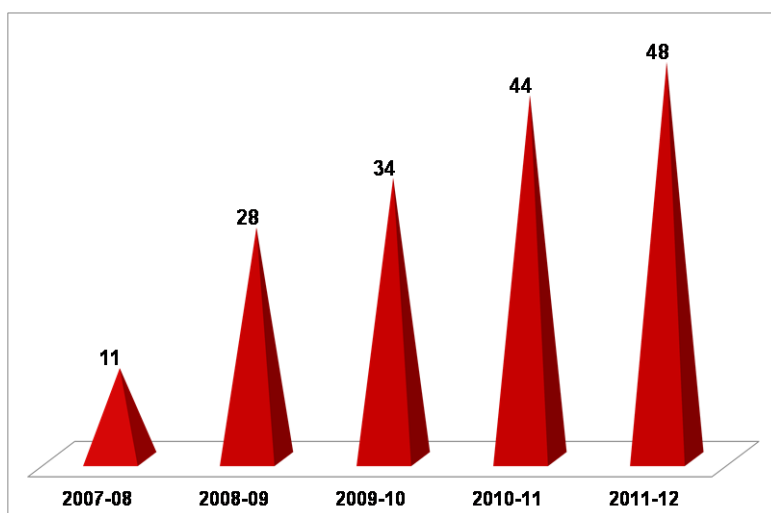
Fig. 4 Number of sponsored projects during the last five years
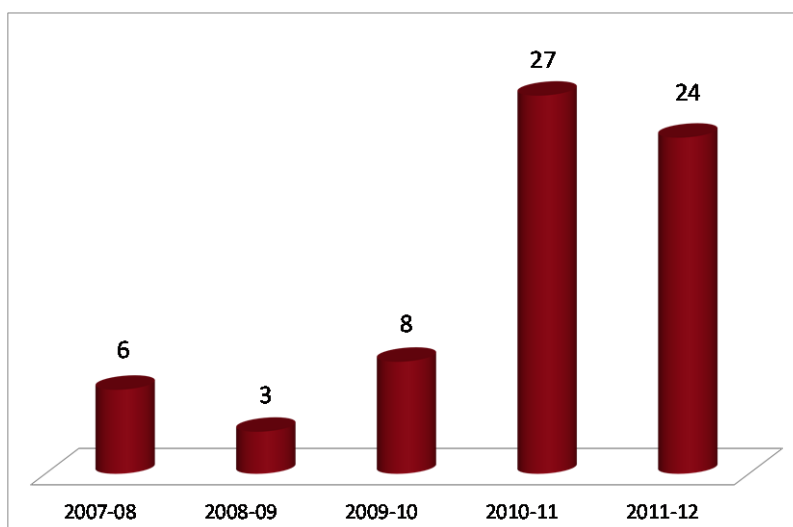
Fig. 5 Number of PhD degrees awarded during the last five years
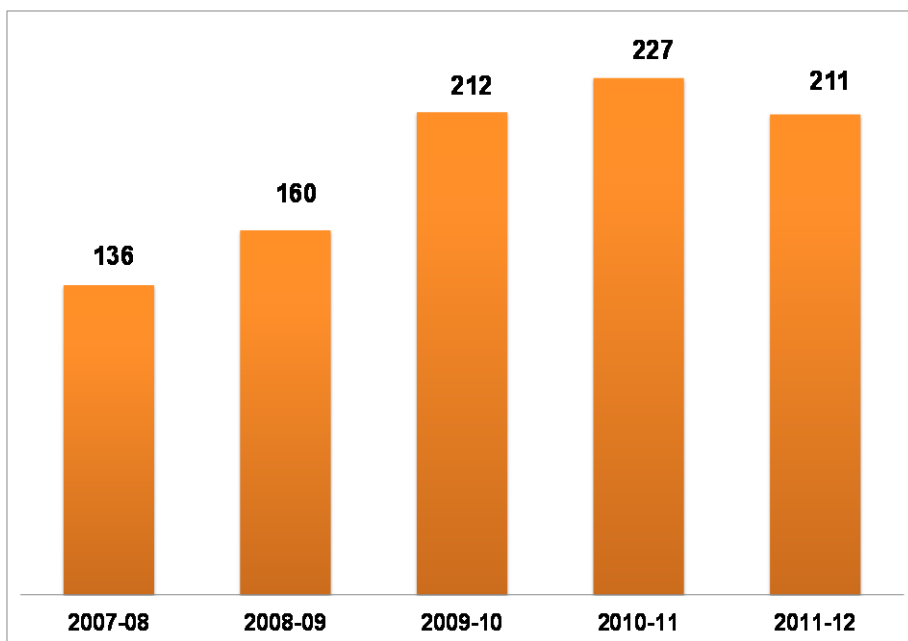
Fig. 6 Number of registered PhD scholars during the last five years
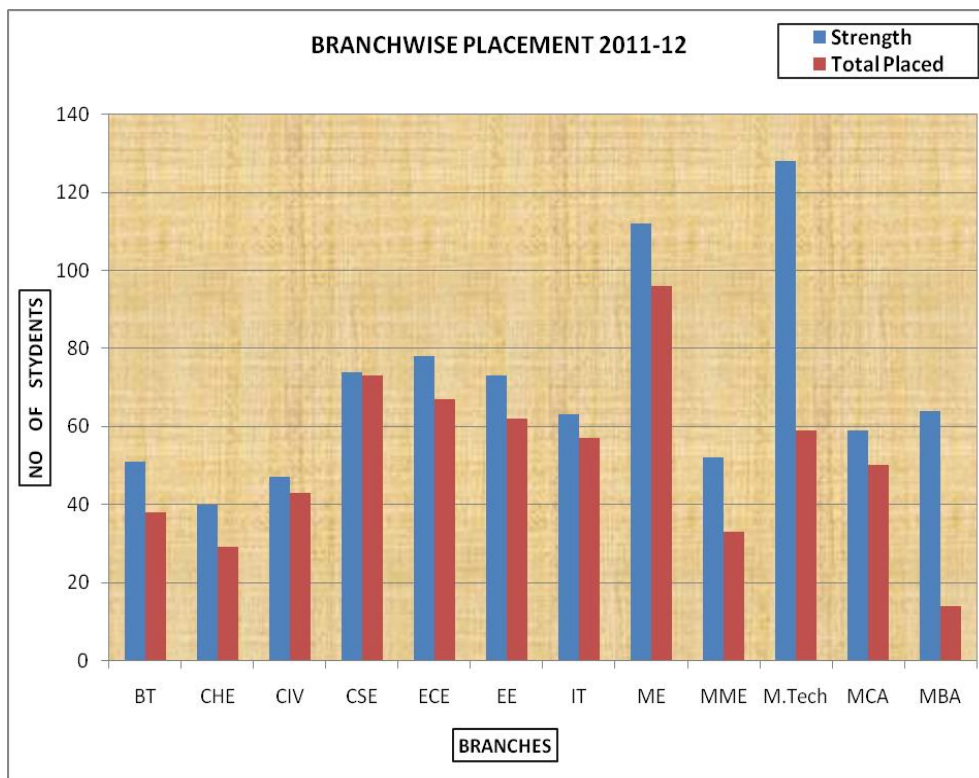
Fig. 7 Placement of students during 2011-2012

3.0 THE STAFF

3.1 Academic Staff (Teaching)

The academic Staff (teaching) of the Institute consists of highly qualified faculty members. The details of faculty position 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(f).

3.3 Training Status

The Institute provides ample opportunities to the Faculty (i) to undergo higher studies under QIP scheme of the Govt. of India and also under Study Leave Scheme, (ii) to attend Seminars, Conferences, Short-Term Programmes etc. in India and abroad and (iii) to undergo Industrial Training. Some 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(h).

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 2011–2012Session (Genderwise):

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B. Tech. I & II	83 (20)	63 (12)	64 (03)	94 (17)	91 (20)	97 (14)	93 (17)	146 (01)	76 (08)	807 (112)
B. Tech. III & IV	57 (12)	58 (06)	68 (04)	91 (14)	96 (21)	93 (16)	82 (14)	147 (05)	64 (11)	756 (103)
B. Tech. V & VI	40 (09)	53 (11)	50 (06)	98 (13)	92 (23)	84 (19)	85 (16)	134 (06)	53 (07)	689 (110)
B. Tech. VII & VIII	51 (18)	40 (08)	47 (03)	74 (10)	78 (09)	73 (15)	63 (12)	112 (05)	52 (07)	590 (87)
Total	231(59)	214 (37)	229 (16)	357 (54)	357 (73)	347 (64)	323 (59)	539 (17)	245 (33)	2842 (412)

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

4.2 A2. Enrolment in B. Tech. Programmes during 2011–2012Session (Castewise):

Dept.	B. Tech. I & II Semesters					B. Tech. III & IV Semesters					B. Tech. V & VI Semesters					B. Tech. VII & VIII Semesters				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	48	10	04	21	83	29	08	05	15	57	17	10	05	08	40	31	11	07	02	51
ChE	34	09	04	16	63	30	07	05	16	58	33	07	03	10	53	26	06	03	05	40
CE	37	06	04	17	64	37	09	04	18	68	33	06	03	08	50	32	07	03	05	47
CSE	51	14	07	22	94	48	14	06	23	91	69	12	04	13	98	54	09	04	07	74
ECE	47	11	07	26	91	50	14	07	25	96	60	12	06	14	92	56	12	04	06	78
EE	50	13	07	27	97	50	14	05	24	93	53	12	06	13	84	51	11	05	06	73
IT	50	13	06	24	93	40	11	07	24	82	52	12	05	16	85	44	09	05	05	63
ME	80	18	09	39	146	83	16	10	38	147	85	16	10	23	134	82	13	07	10	112
MME	40	12	06	18	76	31	09	05	19	64	27	09	05	12	53	35	07	05	05	52
Total	437	106	54	210	807	398	102	54	202	756	429	96	47	117	689	411	85	43	51	590

4.2 B1. Enrolment in M. Tech. & M. Sc. Programmes, 2011– 2012 (Gender wise):

Semester	BT	CA	ChE	CH	CE	CSE	EE	ECE (TELE)	ECE (VLSI)	Geo (EST)	IT	M	ME	MME (IM)	MME (ME)	PH	TOT
M. Tech. I & II	16 (10)	19 (5)	13 (4)	3	17 (7)	24 * (6)	16 (1)	22 (3)	21 (10)	17 (11)	20 (6)	17 (5)	21	9(2)	9 (2)	13 (3)	257 (75)
M. Tech. III & IV	20 (9)	0	8 (4)	5 (1)	7 (3)	21 (3)	12 (3)	23 (4)	21 (8)	14 (10)	22 (3)	12 (2)	15 (3)	2	4(2)	11 (4)	197 (59)
M. Tech. V & VI	0	0	2 (1)	0	1	0	5	0	0	0	0	0	1	3	1	0	13 (1)
M.SC. I & II	0	0	0	12 (2)	0	0	0	0	0	0	0	6 (3)	0	0	0	9 (1)	27 (6)
M.SC. III & IV	0	0	0	10 (4)	0	0	0	0	0	0	0	5 (2)	0	0	0	8 (3)	23 (9)

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

4.2 B2. Enrolment in M. Tech. & M. Sc. Programmes, 2011– 2012 (Caste wise):

Dept./ Year	I & II					III & IV					V & VI				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	10	2	0	4	16	13	2	1	4	20	0	0	0	0	0
CA	12	3	0	4	19	0	0	0	0	0	0	0	0	0	0
ChE	10	1	0	2	13	4	2	0	2	8	2	0	0	0	2
CH	1	1	0	1	3	5	0	0	0	5	0	0	0	0	0
CE	11	2	0	4	17	3	2	0	2	7	1	0	0	0	1
CSE	16	3	1	4	24*	15	2	1	3	21*	0	0	0	0	0
EE	10	3	0	3	16	7	2	0	3	12	4	0	0	0	4
ECE (TELE)	15	3	0	4	22	16	2	1	4	23	0	0	0	0	0
ECE (VLSI)	12	4	0	5	21	14	3	0	4	21	0	0	0	0	0
Geo (EST)	13	0	0	4	17	12	1	0	1	14	0	0	0	0	0
IT	13	3	0	4	20	15	3	0	4	22	0	0	0	0	0
M	14	2	0	1	17	12	0	0	0	12	5	0	0	0	5
ME	14	3	0	4	21	11	2	0	2	15	3	0	0	0	3
MME (IM)	6	0	0	3	9	1	0	0	1	2	0	0	0	0	0
MME (ME)	6	1	0	2	9	3	0	0	1	4	0	0	0	0	0
PH (AMST)	13	0	0	0	13	7	0	0	4	11	0	0	0	0	0
M. Sc. (CH)	11	0	0	1	12	9	0	0	1	10	0	0	0	0	0
M.Sc. (Math)	5	0	0	1	6	5	0	0	0	5	0	0	0	0	0
M. Sc. (PH)	6	0	1	2	9	7	0	0	1	8	0	0	0	0	0
Total	**198**	**31**	**2**	**53**	**257**	**159**	**21**	**3**	**37**	**220**	**15**	**0**	**0**	**0**	**15**

 * 2 No. QIP (Polytechnic) Students

4.2 C1. Enrolment in MCA Programme during 2011 – 2012 Session (Gender wise):

Master of Computer Applications	I & II Semester	III & IV Semester	V & VI Semester
	90 (30)	59 (7)	59 (6)

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

4.2 C2. Enrolment in MCA Programme during 2011 – 2012 Session (Caste wise):

Dept	MCA I & II					MCA III & IV					MCA V & VI				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
MCA	46	13	7	24	90	31	9	1	18	59	34	10	2	13	59

4.2 D1. Enrolment in MBA Programme during 2011 – 2012 Session (Gender wise):

Master of Business Administration	I & II Semester	III & IV Semester
	66 (23)	53 (14)

(Number of female students indicated in parenthesis'; the total number is inclusive of the number of girl students)

4.2 D2. Enrolment in MBA Programme during 2011– 2012 Session (Caste wise):

Dept	MBA I & II					MBA III & IV				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
MBA	41	6	4	15	66	24	8	1	20	53

4.2 E. Enrolment of Research Scholars for PhD work during 2011–12 (Full time & Part time):

SL. NO.	Branch of Research Study	Gender Break Up		Caste Break Up			Total
		Male	Female	SC	ST	OBC	
1	Biotechnology	4	2	1	-	-	6
2	Chemical Engineering	4	3	-	-	2	7
3	Chemistry	4	2	1	-	-	6
4	Civil Engineering	4	0	-	-	-	4
5	Computer Science & Engineering	5	0	-	-	-	5
6	Electrical Engineering	1	1	2	-	-	2
7	Electronics & Communications Engineering	11	0	-	-	1	11
8	Geology	1	0	-	-	-	1
9	Humanities & Social Sciences	4	1	-	-	-	5
10	Management Studies	1	1	1	-	-	2
11	Mathematics	9	0	-	-	3	9
12	Mechanical Engineering	5	0	-	-	-	5
13	Metallurgical & Materials Engineering	-	-	-	-	-	-
14	Physics	-	-	-	-	-	-
	TOTAL	**53**	**10**	**5**	**0**	**6**	**63**

4.3 Admission Statistics – UG/PG Programmes, Programme-wise

The details of the admission statistics is given in Annexure – 11.8(c)

4.4 Students' Total Strength

SI No	Name of the Courses	Total Number of Students
1	Bachelor of Technology	2842
2	Master of Technology	467
3	Master of Computer Applications	208
4	Master of Business Administration	119
5	Master of Science	50
6	PhD	211
	TOTAL	3897

4.5 The Hostels

Staying in hostels is mandatory for all undergraduate students of the Institute. Accommodations are provided to GATE-qualified PG 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 three halls of residence for female students which can accommodate 126 students each with one hostel having single-seated rooms.

One boys' hostel with a capacity of 740 seats is under construction and likely to be handed over by June 2012. Capacity expansion of Boy's Hostel:-
 Hall-1:- Is almost completed, some defect rectification is in progress.
 Hall-2 & 5:- Is in progress, completion of this expansion work (of 03 Hostels) will enhance the accommodation capacity of 504 seats.

4.6 Scholarships/Assistance

The Department of TPSW helps the students 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, table tennis, cricket, chess, Tennis, Badminton and athletics.
In the year 2011-2012 Institute participated in the following All India Inter NIT Games & Sports meet.

i)   Golden Jubliee Inter NIT Competition in Cricket, NIT Calicut during April 01-04, 2011.
ii) Inter NIT Football, Cricket and Chess tournaments, NIT Nagpur during January 20-22, 2012
iii) Inter NIT Volleyball (Men & Women) tournaments, NIT Warangal during January 27-29, 2012.
iv) Inter NIT Basketball (Men & Women) and Tennis (Men) tournaments, NIT Tiruchirappalli during February 02-05, 2012.
v)   Inter NIT Swimming Competitions, NIT Surat during February 17-19, 2012.
vi) Inter NIT Badminton (Men & Women) and Table Tennis tournaments, NIT Allahabad during February 17-19, 2012.
vii) Inter NIT Athletics (Men & Women) meet, NIT Surathkal during March 09-11, 2012.
.

- **Games and Sports Achievements 2011-2012.**

  i)   Athletics Championship Winners (Men team) in All India Inter NIT Meet, Org by NIT Surathkal
  ii)   Won two gold medals in All India Inter NIT Swimming Championship, Org by NIT Surat
  iii)   Best player of the Tennis tournament (Men) in All India Inter NIT Meet, Org by NIT Tiruchirappalli.
  iv)   Third Place in Volleyball (Women) in All India Inter NIT Meet, Org by NIT Warangal.
  v)   Runners up in Cricket in the Golden Jubilee Inter NIT sports fest 2010-2011, Org by NIT Calicut during April 1- 4, 2011.

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 semester (3 hour duration) for the theory papers. Question papers are set internally and moderated by the respective Departmental Academic Committee (DAC). The Institute provides central arrangements for B. Tech. examinations. The postgraduate examinations are being conducted by the respective departments from the academic year 2008-09, with partial support from the Institute, whenever necessary. The students are also continuously assessed through class tests, viva-voce, and class attendance. For the laboratory and sessional classes, the assessments are continuous and supported by viva-voce test /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 marks obtained in a subject are converted to appropriate letter grade by the departmental academic committee (DAC) and despatched 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); Absent: 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 off to the second place of decimal. If the candidate clears all the subjects, his SGPA is marked passed in the grade sheet, otherwise marked supplementary. Such candidates are allowed to appear in the supplementary examinations of the subjects in which they have failed. Fresh grade sheet is issued for such candidates with improved SGPA. The grade obtained by the candidate in the subjects for which he/she had appeared for the supplementary examination 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 awarded are as follows: **CGPA≥ 8.00** *First class with Distinction*; **8.00 > CGPA ≥ 6.50** *First class*; the rest of the passed candidates get *Second class*.

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

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 Ph.D. Programmes – Existing and Proposed

Existing:

Vide Annexure – 11.4(g)

Proposed:

Department of Biotechnology
- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Bioactive compounds from marine organisms
- Biofuels
- Bionanotechnology
- Biopesticides
- Bioremediation
- Bioprospecting Microbial diversity
- Petroleum Microbiology and bioremediation of oil spill/oil sludge
- Microbiology of arsenic contaminated groundwater
- Cancer Biology
- Developmental Biology and Signal Transduction
- Environmental Microbiology and Biotechnology
- Extraction and application of natural dye
- Microbial Pigments
- Molecular Plant Pathology
- Parasite immunology and cell signaling
- Plant Biotechnology
- Screening of Novel Enzymes

Department of Chemical Engineering
- Acetic acid production in membrane-integrated bioreactor system
- Arsenic removal by Chemisorption process
- Arsenic removal by membrane technology
- Biochemical Utilisation of Petroleum Wax (Biochemical Conversion / SCP Production)
- Bubbling Fluidized Bed Combustion
- CFD modelling of Pyrolysis, Combustion and Gasification of Coal and Biomass
- Characterisation of nanomembranes
- Chlorofluorocarbons Replacement
- Clean Technology development for chemical processes
- Clean water production by membrane technology
- Coal bed methane recovery
- Design and Analysis of Circulating Fluidised Bed Bioreactors employing
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal-
- Developing Green Technology through membrane integration
- Development and grafting of fire retardant polymer
- Diesel Particulate Filter-A CFD Modelling
- Dynamic modelling of integrated coke-oven wastewater treatment plant
- Fluidized Bed Combustion
- Heavy metal removal by bio-remediation
- Immobilised Enzyme Nanoparticles
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore
- Methane enrichment by TSA technology
- 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 of Pyrolysis, Combustion and Gasification of Coal and Biomass

- Nanofiltration
- Noncatalytic Gas-Solid Reactions
- Oil Suspension)
- Preparation and Characterization of natural degradable Nano and micro capsules
- Pressure Swing Adsorption Mechanism for Separation
- Production of Biodegradable Plastics (PLLA) from Cheese Whey
- Pyrolysis of weeds
- Removal of phenol using shale
- Replacement of Halogenated compounds by Natural compounds
- Slurry Flow Modelling
- Studies on Biodiesel Production from Microalgae Oil
- Studies on Characteristics of Inverse Fluidised Bed Bioreactors Employing Nanoparticles
- Techno-Economic Feasibility Study for technology transfer from lab to land

Department of Chemistry
- Application of Fenton's, Lime & Biological Treatment & their Comparative Assessment for the Treatment of Textile and Dye Wastewater"
- Application of Photo-Fenton's Oxidation & Biological Oxidation for Degradation of Selected Pollutants Present in Chemical, Petro-Chemical & Coke-Oven Wastewater.
- Corrosion chemistry
- 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, Developement of chemo/fluorosensor for metal ions
- Isolation and Characterization of Industrial Polysaccharides from Indian fruits and vegetables.
- Kinetics and mechanism of inorganic and bioorganic reactions
- Modulation of cell membrane by integrating external lipid
- Protein Dynamics and Drug Design
- Quantum chemical studies
- Spatial and Temporal Variations of Ambient Air Quality
- Surface Chemistry
- Synthesis and application of nonmaterial's for the reduction of environmental contaminants.
- Synthesis and Characterisation of Fe, Co, Ni and Cu complexes

Department of Civil Engineering
- Computational Mechanics of Concrete Structures
- Computational Mechanics of Shell Structures under Lateral load
- Computational Mechanics of Smart laminated Composite Structures
- Data mining for prediction for extreme hydrological events
- Development of Smart Concrete Structures using Shape Memory Alloy to withstand Time Dependant Effects
- Dynamic modelling of crop water requirement
- Experimental mechanics of Concrete Composites.
- Hydrological predictions using air-borne vehicles
- NDT and evaluation of Concrete Structures /Advanced materials.
- River plan form development and erosion around an island in a natural stream
- Structural concrete both with conventional & Non-Conventional (Bio & Non-Bio degradable) Materials-FRC, Polymer Concrete, Assessment & Rehabilitation of Damaged Concrete Structures etc.

Department of Computer Applications
- Cloud Computing
- Data warehousing
- Database Systems
- Software Engineering
- Steganography

Department of Computer Science & Engineering
- Mobile Computing
- Software Engineering
- Testing and Verification of Circuits

Department of Electrical Engineering
- AGC with renewable energy systems, FACTS and PSS in restructured power systems
- Analysis and control of multi-phase induction machine
- Analysis and Synthesis of Robust Controller for Induction machines
- ANN based sensor-less Wind Energy Generation System
- Characterisation of Nano gas Sensors for dissolved Gas Analysis
- ELD, Evolutionary optimization techniques
- Electrical Power Systems State Estimation, Detection and Identification of bad data etc.
- Electromagnetic Levitation
- FACTS
- ICT enabled High Voltage Test system
- Integrated Renewable Energy Systems
- 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 and System Identification
- Periodic Compensation of Continuous-time Plants: Practical Implementation
- Power System Stabilizer
- Price Forecasting
- Process Control and Automation
- Real time implementation of magnetic levitation system
- Side Lobe Reduction and Thinning 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 & Communication Engineering
- Antenna
- Digital Signal processing
- Energy efficient co-operative communication protocols
- MEMS
- Power Line Communication
- RF and Microwave Engineering
- Underwater Acoustic Communication
- VLSI
- Wireless Communication
- Wireless relays and space-time coding

Department of Geology
- Application of Remote Sensing in Petroleum exploration
- Environmental impact on coal mining areas
- Groundwater availability and its management
- Structural Geology & Tectonics of selected areas in Rajasthan

Department of Humanities & Social Sciences
- English Language Teaching
- Linguistic Texture & Gender Discrimination

Department of Mathematics
- Bio-mathematics
- Coding Theory
- Finite Field and Design Theory
- Fixed Pointy Theory
- Functional Analysis
- Fuzzy mathematics
- Image processing
- Information and Coding Theory
- Operations Research
- Optimization of dynamics system
- Population Dynamics
- Portfolio Management
- Real Analysis
- Soft Computing
- Statistical Analysis
- Supply Chain Management
- Theoretical & Computational Fluid Dynamics

Department of Mechanical Engineering
- Computational Fluid Dynamics
- Experimental analysis of composite structures
- Fault diagnosis, detection and isolation
- Industrial Management
- Mobile Robot Navigation
- Non conventional machining
- Soccer playing robots
- Soft Computing
- Thermodynamics

Department of Metallurgical & Materials Engineering
- Characterisation and pre-reduction of electric arc furnace dust.
- Development of cast microalloyed steel.
- Development of nanoceramic oxide dispersed aluminium alloy composites.
- 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.
- Environmental assisted cracking (EAC) of aluminium alloys and stainless steels and their weldments.
- High temperature corrosion behaviour of steel in Industrial environment
- Modification of Al-Si alloy microstructure by semisolid heat treatment
- Salt induced hot corrosion of nickel based super alloys.
- Semi-solid heat treatment of Al alloys.
- Study of Phase Transformation in Dental Amalgams and Their Corrosion Behaviour in Artificial Saliva

Department of Physics
- Development and characterization of nanomaterials using laser
- Functionalization of Carbon Nanotubes, Preparation of Hybrid Structures with Carbon Nanotubes, Characterization and Study of Optical and Electrical Properties.
- Graphene and graphite oxide reinforced epoxy nanocomposites for structural applications
- Graphene/metal nanoparticle hybrids for optical and biomedical applications
- Low temperature characterization of nano-composites, conducting polymers and disordered alloys
- MD Simulation and DFT Study of Mechanical Properties of Carbon Nanotubes and CNT-Polymer Composites
- Non-linear optical frequency conversion techniques for characterization of non-linear optical materials
- Preparation and characterization of advanced polymer composites with carbon nanostructures

- Studies of the effect of electric and magnetic fields on liquid crystals by polarizing light microscopy
- Studies on phenomenology of Z' – Boson and B-meson decays, phenomenology of massive neutrinos, Black hole.
- 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 graphene and its derivatives
- Synthesis and characterization of nanostructured materials
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites
- Synthesis of Metal Nanoparticles by Laser Ablation and Study of Optical Properties

5.2 Details of PhDs done so far

Vide Annexure - 11.4(h)

5.3 Proposed Plan for Research

Department of Biotechnology
- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Bioactive compounds from marine organisms
- Biofuels
- Bionanotechnology
- Biopesticides
- Bioprospecting microbial diversity
- Bioremediation
- Cancer Biology
- Developmental Biology and Signal Transduction
- Environmental Microbiology and Biotechnology
- Extraction and application of natural dye
- Microbial Pigments
- Microbiology of arsenic contaminated groundwater
- Molecular Plant Pathology
- Nano Technology
- Parasite immunology and cell signaling
- Petroleum Microbiology and bioremediation of oil spill/oil sludge
- Plant Biotechnology
- Screening of Novel Enzymes

Department of Chemical Engineering
- Biochemical Utilisation of Petroleum Wax (Biochemical Conversion / SCP Production)
- Biogas separation by membrane gas separation
- Biogas separation by PSA technique
- Carbon dioxide sequestration
- Circulating Fluidized Bed Combustion & Gasification
- Clean coal technology
- Clean development mechanism
- Clean Technology for Chemical Processes
- Co-pyrolysis, Combustion and Gasification
- Design and Analysis of Semi Fluidized Bed Bioreactors
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal- Oil Suspension)
- Diesel Particulate Filter-A CFD Modelling
- Encapsulation of naturally degradable polymer
- Fluidized Bed Combustion
- Gasification of coal and biomass
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore

- Modelling nanofiltration of arsenic removal by membrane-integrated hybrid system
- Multiphase flow
- Optimization and control
- Performance Analysis of Circulating Fluidised Bed Bioreactors employing Immobilised Enzyme Nanoparticles
- Process Intensification towards sustainable technology
- Production of Biodegradable Plastics (PLLA) from Cheese Whey
- Pyrolysis of weeds
- Realistic nanoseparation modelling through on-line streaming potential measurement
- Removal of phenol using shale
- Replacement of Chlorofluorocarbons from Conventional refrigeration systems
- Studies on Biodiesel Production from Microalgae Oil
- Studies on Characteristics of Inverse Fluidised Bed Bioreactors Employing Nanoparticles
- Studies on Immobilised Cell / Enzyme Nanoparticles

Department of Chemistry
- Cryobiology
- Lipid Chemistry
- Pilot Scale study of Physico-Chemical and Biological Treatment of High Strength Wastewater
- Polysaccharide chemistry
- Synthesis of Nonmaterials for Environmental Application

Department of Civil Engineering
- 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
- Flood mitigation of river Kosi system lying in India and Nepal
- Impact of Climate change on water resources
- Modelling of evulsion for river Kosi system
- Removal of heavy toxic metal from ground water using nanotechnology.
- River bed form development and erosion around an island in a natural stream
- Rural water management
- Setting up of a canter of low-cost housing facilities.
- Solid waste management
- Wind energy Studies

Department of Computer Applications
- Design and Architecture of Multi Agent based System
- Design and Architecture of Semi-structure Software system
- Design of Latency Aware Hybrid Ad Hoc Infrastructure for Post Disaster Communication.
- Designing Steganographic system for secured data transfer and data hiding.
- Efficient Intrusion Detection & Incident Response: A FRAMEWORK FOR THE LINUX
- Enhancing Call Carrying Capacity in Cellular Network
  K E R N E L
- Load Balancing in Cellular Networks
- Reducing handoff delays
- Study and development of Trust Computing in Cloud Computing Environment.

Department of Computer Science & Engineering
- Mobile Computing
- Software Engineering
- Testing and Verification of Circuits

Department of Electrical Engineering
- Active Magnetic bearing
- Analysis and Control of Induction Generators
- Analysis and Synthesis of Robust Controller for Induction machines
- Analysis of Brushless DC motor
- Assessment of Deregulation of Power with a view of reform in power sector
- Condition Monitoring of Electrical Machines
- Congestion management
- Control of Switch mode converters.
- Control System Design using Periodic Feedback Compensation – A Practical Implementation
- Design & analysis of switched reluctance motor drives using DSP
- Design, analysis of Matrix Converter using DSP.
- Digital Control of Electric Drives
- Distributed Generating Systems
- Distribution Systems
- Electric Curing of concrete materials.
- Electrical machines, Drives and Control
- Electrical Power Systems State Estimation, power flow studies, load forecasting etc.
- Electromagnetic Fields
- Electromagnetic levitation
- ICT Enabled Remote Laboratory
- Influence of geometric asymmetries on the performance of two- stage electro-hydraulic servo-valve
- Modelling of Insulation Systems
- Non-conventional energy sources, wind energy, small hydro plants etc.
- On-line Monitoring of High Voltage Power Equipment
- Optimization in E-Governance
- Optimization in VLSI design
- Optimizing different parameters of Wind-solar hybrid power generation system
- Parallel and hierarchical computations in electrical power systems
- Partial Discharge analysis of HV power equipment
- Periodic Control of Double Inverted Pendulum System
- Power Quality analysis
- Power system transmission line fault detection
- Process Optimization, Control and Instrumentation
- PSS and FACTS based power systems
- Renewable energy in view of innovative developments
- Renewable Energy Systems
- Robust Control of Switching Power Converters
- Side Lobe Reduction in Various Structures of Array Antennas
- Simulation of magnetic field in power lines and human environment.
- Simultaneous Pole-Placement/Stabilization of Two LTI Plants by a Continuous-time Periodic Controller
- Study of partial discharge
- Switched mode Choppers and converters
- Virtual Instrumentation of industrial processes
- Voltage instability and reactive power planning

Department of Electronics & Communication Engineering
- Antenna
- Cognitive radio Networks
- Digital Signal processing
- Energy efficient co-operative communication protocols
- MEMS
- MEMS,
- Nanoscale Semiconductor Devices
- Power Line Communication
- RF and Microwave Engineering

- Solar Cell
- Underwater Acoustic Communication
- VLSI
- Wireless Communication
- Wireless relays and space-time coding
- Wireless Sensor Networks

Department of Geology
- Application of Remote Sensing in Petroleum exploration
- Environmental impact on coal mining areas
- Groundwater availability and its management
- Structural Geology & Tectonics of selected areas in Rajasthan

Department of Humanities and Social Sciences
- Literary Theory and Criticism
- Poems and Plays of Shakespeare
- Translation Studies

Department of Information Technology
- Deniable and hierarchical crypto-systems
- Game theory based automated mechanism design
- Group Synchronisation and design of Tele-teaching systems
- Image processing in polar coordinate system and its application in Biomedical Engineering
- Knowledge based systems
- Optical networks – Burst and Coarse Packet switching
- Soft Computing Techniques for Bioinformatics systems
- Swarm robotics
- VLSI testing

Department of Mathematics
- Bio-mathematics
- Computational Graph Theory
- E-commerce
- Fixed Point Theory
- Fuzzy Mathematics
- Hypergraph
- Image processing
- Information Theory
- Mathematical Modelling
- Operations Research
- Optimization of dynamics system,
- Population Dynamics
- Portfolio Management
- Soft Computing
- Statistical Analysis
- Supply Chain Management
- Theoretical & Computational Fluid Dynamics

Department of Mechanical Engineering
- Complete fault diagnosis, detection and isolation of Rolling stand through electrical motor current signature analysis
- Constructal theory-based formulation of thermodynamic optimization principle
- Design and development of soft computing based multi agent systems
- Development of All terrain robot
- Development of climbing robot

- Experimental Analysis of Composite Structures
- Machine dynamics
- Nonlinear Control

Department of Metallurgical & Materials Engineering
- Characterisation and pre-reduction of electric arc furnace dust.
- Development of cast microalloyed steel.
- Development of nanoceramic oxide dispersed aluminium alloy composites.
- 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.
- Environmental assisted cracking (EAC) of aluminium alloys and stainless steels and their weldments.
- High temperature corrosion behaviour of steel in Industrial environment
- Modification of Al-Si alloy microstructure by semisolid heat treatment
- Salt induced hot corrosion of nickel based super alloys.
- Semi-solid heat treatment of Al alloys.
- Study of Phase Transformation in Dental Amalgams and Their Corrosion Behaviour in Artificial Saliva

Department of Physics
- Development and characterization of nanomaterials using laser
- Functionalization of Carbon Nanotubes, Preparation of Hybrid Structures with Carbon Nanotubes, Characterization and Study of Optical and Electrical Properties.
- Graphene and graphite oxide reinforced epoxy nanocomposites for structural applications
- Graphene/metal nanoparticle hybrids for optical and biomedical applications
- Low temperature characterization of nano-composites, conducting polymers and disordered alloys
- MD Simulation and DFT Study of Mechanical Properties of Carbon Nanotubes and CNT-Polymer Composites
- Non-linear optical frequency conversion techniques for characterization of non-linear optical materials
- Preparation and characterization of advanced polymer composites with carbon nanostructures
- Studies of the effect of electric and magnetic fields on liquid crystals by polarizing light microscopy
- Studies on phenomenology of Z' – Boson and B-meson decays, phenomenology of massive neutrinos
- 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 graphene and its derivatives
- Synthesis and characterization of nanostructured materials
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites
- Synthesis of Metal Nanoparticles by Laser Ablation and Study of Optical Properties

5.4 Institute-Industry Collaboration during 2011-12

Department of Biotechnology

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Bharat Petroleum, Rajbandh, Durgapur	Petroleum sludge bioremediation	Research

Chemical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Dynotherm Ltd, Mumbai Prof.C.M.Narayan	Heat Transfer Augmentation	Variable Area Design for Waste Heat Boilers
Govt.of India-sponsored Red brick cluster Development Project by Prof. P.Pal jointly with Dr. M. Roy (DMS) & Prof. S.Saha (CE)	Small Industry Cluster Development	Socio-economic and environmental sustainability
Ministry of Environment and Forest Prof.C.M.Narayan	Petroleum Processing	Biochemical Utilisation of Petroleum Wax
Refractory Manufacturing Association of Asansol-Kulti Prof.P.Pal	Development of remedial measures for environmental pollution problems	Existing fuel pattern, pollution, alternate firing technique development
Sameer Centre for Electromagnetics, Ministry of Communication and Information Technology Prof.C.M.Narayan	Heat Exchangers	Variable Area Design of Heat Exchangers and Condensers
Siemens Information Systems, Bangalore Prof. C. M. Narayan	Biomass Utilisation for Power Generation	Two Stage Fluidised Bed Gasification of Biomass
Synergy Biotech Ltd, Calcutta Prof. C. M. Narayan	Biofertilisers	Production of PROM (Phosphate–Rich Organic Manure)

Department of Civil Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Water Res. Dept., Govt. of Bihar, Patna, India	Water Resources Engineering	Research and Projects

Department of Computer Science and Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
IBM	Enablement of Moodle Software to DB2	Remote Mentoring Project

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Research on DGA, Gas Sensors	Joint Research

5.5 Innovations and Technology Transfer

Patent taken/filed during 2011-12

Department of Biotechnology

Title	Inventors	Application No.
A process for whey treatment and an integrated treatment module thereof	Amitava Chakraborty Dr. Papita Das	1428/KOL/2011 A; A23C21/00; Publication Date : 02/12/2011

Department of Chemical Engineering

Title	Inventors	Application No.
An eco-friendly mechanism of cold production to combat with halogenated refrigerants	Dr. Gopinath Halder	1153/KOL/2011
Membrane-integrated Hybrid Treatment System for Arsenic Removal	Prof. P.Pal	766/KOL/2011 IndianPatentJournal 01/07/2011
System and Method of Direct Lactic Acid Production	Prof. P.Pal	1364/KOL/2011A Indian Patent Journal 16/12/2011

5.6 Workshops/Seminars Organised by the Institute (2011-12)

Department of Chemical Engineering

SL. NO.	Name of Organizers	Name of the Programme	Date of the programme
1	Dr. Swapan Paruya, Co-ordinator Dr. Anup Kumar Sadhukhan Co-Cordinator	SERC School on Nonlinear programming and soft computing techniques for chemical engineering	December 12-16, 2011
2	Prof C. M. Narayan (Chief Coordinator)	All India Students' Engg. Congress – 2012	February 4-5, 2012

Department of Computer Applications

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. N. C. Debnath, WSU, USA	International Conference on Business and Information Management (ICBIM 2012)[*]	January 9-12, 2012

[*] With MS & HSS, NIT, Durgapur

Department of Electrical Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof Rajnikanta, Indian Institute of Science,Bangalore Prof N K kishore, Indian Institute of Technology, Kharagpur.	International Conference of Emerging Technologies (ICET-2012)	March 23 - 25, 2012

Department of Humanities & Social Sciences

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr P. P. Sengupta (Organising Secretary)	International Conference on Business & Information Management (ICBIM-2012)*	January 9-12, 2012

* With Department of Computer Application and management Studies

Department of Management Studies

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof Subal C Kumbhalkar Prof Kajal Lahiri Prof Kalyan Chakraborty Prof Narayan C Debnath Prof Tathagato Bandopadhaya Prof B B Chakraborty Prof A Sinha Prof C Mazumdar	International Conference on Business and Information Management (ICBIM-2012)*	January 9-12, 2012

* With CA and HSS

Department of Mathematics

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Prof. R. E. Amritkar, Physical Research Laboratory, Ahmedabad Prof. Syamal K. Dana, Indian Institute of Chemical Biology, Kolkata Prof. Mahendra K. Verma, Indian Institute of technology, Kanpur Prof. Sitabhra Sinha, Institute for Mathematical Sciences, Chennai Prof. Pankaj Wahi, Indian Institute of technology, Kanpur Prof. Prashant Gade, Nagpur University, Nagpur Prof. Rajkumar Roychoudhury, Indian Statistical Institute, Kolkata Prof. Joydev Chattopadhyay, Indian Statistical Institute, Kolkata Prof. Himadri Pai Mazumdar, Indian Statistical Institute, Kolkata Prof. Prosanta Chatterjee, Visvabharati University, West Bengal. Organizing Secretaries : Dr.P. Pal & Dr. S. Kar	National Workshop on "Nonlinear Dynamical Systems" (NDS 2011)	July 4 – 8, 2011
2.	(i) Prof. Boading Liu (Tsinghua University, Beijing, China) (ii) Prof. Amit Konar (Jadavpur University, Kolkata, India) (iii) Prof. Piero Pagliani (Imperia, Rome, Italy) (iv) Prof. Xiaoxia Huang (University of Science and Technology Beijing, China) (iv) Prof. Mohua Banerjee (IIT Kanpur, India (v) Prof. Ashok Deshpande (Pune University, Pune, India)	International Conference on "Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications" (FRUAA 2011)	November 21 – 25, 2011

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
	(vi) Prof. Swapan Raha (Visvabharati, India) (vii) Prof. Sonajharia Minz (Jawaharlal Nehru University, India) (viii) Prof. Pawan Lingras (Saint Mary's University, Canada) (ix) Dr. Debabrata Dutta (BARC, Mumbai, India) (x) Prof. C. A. Murthy (ISI Kolkata, India) (xi) Ms. S. Dutta (Calcutta University, India Organizing Secretary:Dr. S. Kar		
3	(i) Prof. B.D.Acharya (Former Director DST Delhi) (ii) Prof. K.A. Germina (Kannur University, Kerala) Organizing Secretary: Dr. Anita Pal	One Day workshop on "Recent advances in Graph Theory"	March 26, 2012

DST-sponsored INSPIRE Programme - 2011

National Institute of Technology,Durgapur successfully organised Innovation in Science Pursuit for Inspired Research (INSPIRE) camp, fully sponsored by DST, Govt. of India during June 26- 30, 2011 to inspire young talents towards advanced studies and research inbasic sciences. Two hundred and twenty eight students from different schools of West Bengal participated in the programme which was inaugurated by Dr. A. N. Khan Choudhury, Honb'le Minister of State for Science & Technology, Government of West Bengal. The validectory function was chaired by Prof. Bikash Sinha, Homi Bhaba Professor, DAE & Chairman, BOG, NIT Durgapur. Other highly qualified mentors; Academy Fellows, Bhatnagar awardees and scientists of national & international repute delivered their lecture related to scientific success stories and joys of innovation across all streams of science that in turn would stimulate their curiosity and attract them at an early age of 16-17 years top ursue their career in science.

5.7   Collaboration with Academic and Research Institutions

CERN, Geneva:

Pandey Rajesh, a B. Tech. student of Department of Computer Science & Engineering went to CERN, Geneva for a summer internship on "**DEVELOPMENT OF TRIPLE GEM DETECTORS AND COSMIC RAY STAND FOR CMS EXPERIMENT**" under the supervision of Dr. Andrey Marinov.

Esha Sarkar, a B. Tech. System student of Departement of **Electrical Engineering** did his internship on "**CALIBRATION OF FIELDS IN DEVELOPMENT OF TRIPLE-GEM DETECTOR AND BEAM TEST IN MAGNETIC FIELD**" under the supervision of Dr. Yasser Assran at CERN, Geneva.

E. Vindhya Revathi Vyjayanthi, a B. Tech. student of Departement of Electronics & Communication Engineering did her internship on "**STUDY OF THE ELECTRONIC ASPECTS OF THE TRIPLE-GEM DETECTOR**" at CERN, Geneva.

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

Eleven faculty members of CCEO registered for PhD programme at NIT Durgapur and three have already been awarded the PhD degree.

Department of Biotechnology

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Anthropological Survey of India, Kolkata	Research on Cancer Biology	Kazy S.K., NIT Durgapur Sarkar B.N., ASI, Kolkata	Research
Cancer Centre Welfare Home and Research Institute, Kolkata	Research on Cancer Biology	Kazy S.K., NIT Durgapur Sarkar B.N., ASI, Kolkata Kar M., CCWHRI, Kolkata	Research
Central Mechanical Enginreering 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 Enginreering 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
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 microbial diversity	Kazy S K, NIT Durgapur Archana S, IARI	Research
IARI, New Delhi	Research on Production of Novel Enzymes	Dutta D., NIT Durgapur, Lata, IARI, New Delhi	Joint research
Indian Institute of Technology Guwahati	Project on petroleum Microbiology and bioremediation of oil spill/oil sludge	Kazy S K , NIT Durgapur Ghoshal A K , IIT Guwahati	Research
Indian Institute of Technology Kharagpur	Sponsored projects on subsurface sediment/ groundwater microbiology	Kazy S.K, NIT Durgapur; Sar P., IIT Kharagpur Gupta A.K., IIT Kharagpur	Research
Jadavpur University, Kolkata	Water quality analysis and treatment of industrial effluent	Saha P., NIT Durgapur and Banerjee P K., JU, Kolkata	Joint Research
National Institute of Plant Genome Research, New Delhi	Plant Developmental Biology and Signal Transduction	Chattopadhyay S., NIT-Durgapur and Sinha K.A., NIPGR, New Delhi	Research
National Institute of Technology Jalandhar	Research on Environmental Biotechnology	Dey A., NIT Durgapur and Jha M.K., NIT Jalandhar	Joint Research
National Institute of Technology Jalandhar	Research on Medical Textiles	Dey A., NIT Durgapur and.Jha M.K. and Ghosh S., NIT Jalandhar	Joint Research
National Institute of Technology Jalandhar	Research on Environmental Biotechnology	Dey A., NIT Durgapur and Jha M.K. and Bansal A., NIT Jalandhar	Joint Research
Punjab Technical University	Bioinformatics	Dey A., NIT Durgapur and Singh A., BCET Gurdaspur	Joint Research
The M. S. University of Baroda	Molecular Plant-Fungus Interaction	Roy Barman S., NIT Durgapur and Chattoo B. B., MSU, Baroda	Research

Department of Chemical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Calabria University, Italy	Membrane Technology	Pal P.	Collaborative research & publication
Caledonian College of Engineering, Sultanate of Oman & INRA – Laboratoire De Biotechnologie De-L'Environnement, Narbonne, France	Biomass Utilisation	Narayanan C.M.	Research Project on Methane Potential from Anaerobic Digestion of Mixed Substrates of Vegetable and Fruit Wastes together with Oil and Fatty Residues
Central Institute of Fuel and Mining Research, Digwadih, Dhanbad	Development of Cryo-calorimeter	Halder G. N.	Collaborative research & publication in John-Wiley Inc
Dalhousie University, Canada	Torrefaction of Biomass	Sadhukhan A. K. Gupta P.	Collaborative research
Heritage Institute of Technology, Kolkata	Waste Water Treatment	Dutta S.	Collaborative Research & Publication in Elsevier Sc.
IIT Kanpur	Pervaporative Membrane Separation and Gas Separation	Mandal M. K.	Collaborative research & publication
IIT Kharagpur	Pyrolysis & Combustion of Coal & Biomass	Sadhukhan A. K. Gupta P.	Collaborative Research & Publication in Elsevier Sc.
Indian School of Mines, Dhanbad	Carbon dioxide sequestration	Halder G. N.	Collaborative research & publication
Indian School of Mines, Dhanbad	Carbon dioxide sequestration	Mandal M. K	Collaborative research & publication
Jadavapur University	CFC replacement	Halder G. N.	Collaborative research & publication in Elsevier Sc
Lappeenranta University of Technology, Finland	Membrane Technology	Pal P.	Collaborative research & publication in Elsevier Sc
New Horizon Institute of Technology, Durgapur	Development of fire-retardant polymer	Halder G. N.	Collaborative research & publication
New Horizon Institute of Technology, Durgapur	Development of fire-retardant polymer	Mandal M. K.	Collaborative research & publication
Royal Institute of Technology, Stockholm, Sweden	Membrane Distillation	Pal P.	Collaborative research & publication
University of Calcutta	Waste Water Treatment	Dutta S.	Collaborative Research & Publication in Elsevier Sc.
University of Miami, USA	Large-Scale Optimization of Industrial Processes	Paruya S.	1. Exchange of ideas through visits 2. Joint guidance for students 3. Joint publications 4. Joint proposals for funding

Department of Chemistry

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Calodian College of Engineering, Muscat, Oman	Corrosion Chemistry	Feroz S., Das S.B. and Saha R.N.	Jointly supervising Ph.D. student
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"
Department of Chemistry University of California, Davis, CA 95616, USA	Crystal structure determination	Olmstead M.M. Patra A.K.	Single crystal X-ray Diffraction studies on the metalo-ligand complexes
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 Ph.D. student
Dept. Of Environmental Science, The University of Burdwan, West Bengal	Water and Wastewater Treatment	Datta J. K., Gupta S. and Saha R. N.	Jointly supervised the Ph.D students in the areas on Environment management.
Indian Institute of Technology Kanpur, Department of Chemistry, Kanpur 208016	Redox active metal/ligand systems	Mukherjee R. Patra A. K.	Spectro-electrochemical investigation of redox active metal/ligand complexes and their EPR studies
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 G. Patra A. K.	Antibacterial and other biological studies on synthesized metal complexes of various Schiff base and amide ligands
Vienna University of Technology	Kinetics and inorganic reaction mechanism	Linert W. Moi S.C.	Biomolecular substitution kinetics in $4d^8$ and $5d^8$ metal ion system

Department of Civil Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Concordia University, Montreal, CANADA	Structural Engineering/ Structural Health Monitoring	Datta A.K.	Research
Lund University, Lund Sweden	Water Resources Engineering	Dwivedi V.K.	Research and Exchange
National Institute of Hydrology, Roorkee, India	Water Resources Engineering	Dwivedi V.K.	Research and Projects

Department of Computer Science and Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CERN, Geneva, Switzerland	MTech Project Work	Pal(DebRay) T.	Supervision and Discussion with joint guide of PG Project

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Research on DGA, Gas Sensors	Roy N.K.	Joint research
IIT Kharagpur	Control of DC EMLS	Banerjee S. & Pal J.	Joint research
IIT Chennai	Online monitoring of Transformer	Roy N. K. Sarathi R.	Joint Research
ISM, Dhanbad	ELD, OPF, DGS, Soft Computing	Ghoshal S.P.	Joint Research
NITTTR kolkatta	Maglev, AMB	Banerjee S. & Sarkar P.	Joint research
University of South Australia, Australia	ICT enabled High Voltage Laboratory	Roy N.K. Nafalski A.	Joint research

Department of Electronics & Communication Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Dept. of Information Engg. Universita Degli Study the Parma (University of Parma), Italy	Wireless Sensor Networks Cognitive Radio Networks	Kundu S.	Joint research
Dept. of ECE, TECHNO India Salt lake Kolkata - INDIA	VLSI Design	Mal A. K.	Joint research
School of EECE, Newcastle University UK	Electronic Devices	Mahapatra R.	Joint research

Department of Management Studies

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
The Royal Institute of Technology, Stockholm	Common property resource management	Roy M.	Research publication, mutual visits for delivering lectures on the subject.
Lappeenranta University of Technology, Finland	Water resource Management, Knowledge management	Roy M.	Research Publication, mutual visits

Department of Mathematics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Instrumentation, Indian Institute of Chemical Biology, Kolkata	Chaos Synchronization	Pal P. & Dana S. K.	Joint Research
Central university of Jharkhand, Ranchi	Study on e-learning	Basu K. & Banerjee D.K.	Joint Research
Department of Mathematics, Kalyani University	Block Design Theory	Bagchi S. & Basu M.	Joint Research
Department of Mathematics-Jadavpur University	Fixed Point Theory	Dey L. K. & Das P.	Joint Research
Department of Mechanical Engineering, Indian Institute of Technology, Kanpur	Convective Instabilities	Pal P. & Wahi P.	Joint Research
Department of Physics , Indian Institute of Technology, Kanpur	Convective Instabilities	Pal P. & Verma M. K.	Joint Research
Department of Physics and Meteorology, Indian Institute of Technology, Kharagpur	Convective Instabilities	Pal P. & Kumar K.	Joint Research
Dept. of Agricultural Statistics,Bidhan Chandra Krishi Viswavidyalaya, Nadia	Application of Multi variate analysis	Sarkar(Mondal),S & Mazumdar,D.	Joint Research
Dept. Of Computer Science, Jadavpur University, Kolkata	Risk Management and Soft Computing	Kar S. & Mallik U.	Joint Research
Dept. of Mathematics & Statistics, Caledonian college of Engineering. Oman, Muscat	Reliability theory	Pal A. & Rizwan S. M.	Joint Research
Dept. of Mathematics, Vidyasagar University	Transportation and Inventory Management	Kar S. & Maiti M.	Joint Research
Dept. of Mathematics, Vidyasagar University	Computational Graph theory	Pal A. & Pal M.	Joint Research
Uncertainty Theory Lab, Tsinghua University, China	Uncertainty Theory and Applications	Kar S. & Boarding Liu, China	Joint research

Department of Mechanical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute , Durgapur, India	Thermodynamics, Fluid Mechanics and Heat Transfer	Pramanick A. K.	Student exchange, joint research and pedagogy
Indian Institute of Technology Kharagpur, India	Droplet Dynamics	Pramanick A. K.	Faculty exchange and joint research
Jadavpur University, India	Non-conventional Energy	Pramanick A. K.	Joint research
University of Stuttgart, Germany	Aerothermodynamics	Pramanick A. K.	Student and faculty exchange, joint research, pedagogy

Department of Metallurgical and Materials Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Effect of cyclic heat treatment on microstructure and mechanical properties in various grades of plain carbon steels	Maity J. and Mondal D. K.	PhD work
Central Mechanical Engineering Research Institute, Durgapur (with Dr. A K Lohar)	Study of age hardening behaviour of Al-Mg-Sc-Zr alloys	Mallik M.	Collaborative undergraduate study
Central Mechanical Engineering Research Institute, Durgapur (with Dr. D Ghosh)	Effect of particle size and volume fraction of dispersoids on electrical and mechanical properties of ceramic oxide dispersed Cu based composites	Bera S.	M. Tech. work
Indian Institute of Technology, Kharagpur	Development of TiC reinforced aluminium based metal matrix composite with and without a second reinforcement	Maity J.	Joint PhD work
Indian Institute of Technology, Kharagpur (with Dr. Debalaya Chakraborty)	Study of Austenitic Grain Growth in Plain carbon Steels	Maity J., Bera S.,	Collaborative undergraduate study
Jadavpur University	Transient liquid phase diffusion bonding of aluminium based metal matrix composites	Maity J.	Joint PhD work
National Metallurgical Laboratory, Jamshedpur (with Dr. S. Ghosh Chowdhury)	TWIP Steel	Bera S.	Collaborative research work

Department of Physics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Burdwan University	Electronics and Communication	Mandal M. K.	Joint Research
Burdwan University	Nonlinear Optics	Kumbhakar P.	Joint Research/ publication of paper
Burdwan University	Ferrite Nano Composites	Meikap A. K.	Joint Research
CMERI, Durgapur	Nanotechnology	Kumbhakar P.	Joint Research/ Joint PhD Guidance
CMERI, Durgapur	Multiferroics materials	Basu S.	Joint Research
CSIR-NML , Jamshedpur	Magnetic nanomaterials	Basu S.	Joint Research
Dublin City University, Dublin, Ireland	Nanocomposites	Chakraborty A. K.	Joint Research
EMPA, Swiss Federal Laboratories for Materials Science & Technology	Epoxy nanocomposites	Chakraborty A. K.	Joint Research under Indo-Swiss project
IACS, Kolkata	Nanomaterials, Multiferroics	Basu S.	Joint Research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Indian Institute of Technology, Kharagpur	Nanocomposites	Chakraborty A. K.	Joint Research
Indian Institute of Science, Bangalore	Synthesis and Characterization of Nanomaterials	Kumbhakar P.	Joint research under UGC-NRM
National Institute of Technology, Raipur	Condensed Matter Physics	Sahoo S.	Joint Research
Regional Institute of Education, Bhubaneswar (NCERT)	Nuclear Physics, Cosmology, Physics Education & General Physics.	Sahoo S.	Joint Research
University of Dublin	Polymer-CNT Composites	Meikap A K	Joint Research
Utkal University, Bhubaneswar	Theoretical High Energy Physics	Sahoo S.	Joint Research
Visva-Bharati University, Shantineketan	Optical Nanomaterials	Chakraborty A. K.	Joint Research

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

7.1 Concessions Provided for Students

The Department of Training, Placement, and Students' Welfare provides the students with Railway and Airway Concessions during their vacations.

8.0 FINANCIAL STATUS

8.1 Analysis of Plan and Non-Plan Grants (2011-2012)

Plan (General Component) Grants   – Rs. 4200.00 Lakhs
Non-Plan (Recurring) Grants   – Rs. 4600.00 Lakhs

8.2 Sources of Funds

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

8.3 Expenditure Position for Last Three Years

(Rupees in Lakhs)

Plan head Expenditure		Non-Plan head Expenditure	
2008-09	463.64	2008-09	3067.10
2009-10	4700.08	2009-10	4713.64
2010-11	3584.70	2010-11	6000.89

Plan head Expenditure in 2011-12 (unaudited)   – Rs 4474.32 Lakhs
Non-Plan head Expenditure in 2011-12 (unaudited) – Rs 6254.89 Lakhs (including depreciation)

9.0 CENTRAL FACILITIES AND SERVICES

9.1 Computer Services Centre

List of Servers and Desktop Computers:

- HP Blade server system:-
  - Management Server: Model HP Proliant ML350 Intel Xeon CPU
  - Second Intel server: Model HP Proliant ML350, Intel Xeon CPU
  - Eight numbers of blade: Model HP BL20p
- HP Blade holder
  - HP Storage: Modular Smart Array 1000 SCSI array of 146.8 GB x 10
  - Redundant power supply system
- SUN FIRE V240 Server and 11 SUN Workstations
- IBM SERVER System
  - IBM Server p5: Type : 9113-550
  - Storage EXP-PLUS320, Type 2104-TS4 with 4 nos. of disks IBM U320 73.4 GB
- HCL SERVER for ARC-GIS, Intel Xeon, 2GB RAM
- HP, HCL, DELL & Lenovo Desktop PCs

List of Software:

- Adobe Director 10 users (license on blade server 1)
- ANSYS 5 users license server on blade8 (win2K3)
- ASPEN PLUS 5 users network license and single in standalone (license on Intel Server)
- AUTODESK Mechanical, Civil 40, 10 users license server on blade8 (win2K3)
- CATIA (license server on blade management server)
- DB2 UDB Enterprise server (AIX Platform) on IBM Server
- FLUENT & FLOWLAB-20 & 25 users
- IBM rational Rose Suit (Windows Platform) 10 users
- LABVIEW 5 users
- MATLAB (license on blade management server)
- Maya users (license on blade server 1)
- Open Inventor 3D object oriented developer tool kit 5 users
- Oracle 10g Enterprise Edition with DW tools (Windows) 20 users
- Oracle Developer Suit 10g (Windows) 25 users
- Pro Engineer (license on Intel server)
- SPSS (Windows) 10 users
- SPSS Clemantine (Windows) 25 users
- Web Sphere Application Server (AIX Platform) on IBM Server
- Web Sphere Studio Application Developer (AIX Platform) on IBM Server

Peripherals:

- A0 Colour Plotter: HP Design Jet 500 PS; Model: C7770C
- A0 Plotter: HP Design jet 430, Model: C4714A
- HPDeskjet3745: Model C9025A
- A0 Scanner: Vidar Nova XP36
- A3 Scanner: Epson GT15000
- HP Scan jet 3770 Model: A5191L
- HP Heavy-duty Network Printer

Internet Services:

Campus wide network covering all departments, hostels, faculty quarters, and staff club has been completed with about 6 kms Fiber Optic Cable as a backbone with about 4500 CAT-6 UTP points. Two ISP's have been providing 350 MBPS bandwidth, distributed throughout the campus by 24x7.

9.2 Workshops

The Department of Workshop of the Institute has eight engineering shops in different sheds, 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, (8) Foundry Shop, imparting training to UG & PG students of different semesters in accordance to UG & PG Curricula which include Workshop classes for all branches of engineering at different levels. The Workshop has been modernised by utilizing the grants provided to it under MODROBS & TEQIP scheme. Students from different Departments and particularly from Mechanical Engineering Branch utilize the workshop facilities for their Project & Thesis works. It has developed one Laboratory, where students can learn manufacturing, assembling, testing & repairing of air conditioners.

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 1000sq. mtrs. The library has a collection of 1, 41,000 volumes, which includes text books, reference books & bound volumes of Journals, Standards etc. The library subscribes to about 150 current Journals. Library operations have been automated with the help of an integrated library software package, LIBSYS-4. The book database is accessible through OPAC (Online Public Access Catalogue). It has a good collection of electronic resources in its Digital Library. It is an open access library and remains open from 8:30a.m. to 10:30 p.m. on weekdays and from 9 a.m. to 5 p.m. on Saturdays and Sundays. Library has introduced wi-fi Internet access facility in the reading halls.

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), American Center Library, Kolkata, NPTEL (National Programme on Technology Enhanced Learning), and Current Science Association, Bangalore. It is also a beneficiary Member of INDEST-AICTE (Indian National Digital Library in Engineering, Science & Technology) Consortium, which provides Desktop Access to high quality e-resources (online journals) like IEL Online (IEEE/IEE Electronic Library), Springer Verlag's Link, Proquest, ACM journals, ASCE, ASME, Nature Magazine, Indian Standards (Intranet version) and ASTM journals & Standards etc. It has a good collection of Learning Resources, like Robot Simulation Software, Mechatronics Simulation Software, Pneumatics and Electro Pneumatics Simulations Software and Microcontroller Design & Simulation Software. It has also a collection of several thousand e-books on Computer Science (Published by Springer) available through website. Total collection of books, journals, etc. and the annual expenditure are as detailed below:

(i) Total Collection	General Book	86878
	Book Bank	30681
	Bound Vol. of Journals	7744
	SC/ST	934
	ISI	5072
	Gift	3963
	Misc.	1485
	TEQIP Books	4244
	Total	**1,41,001**
(ii) No. of Journals Subscription	Foreign **(e-journals through INDEST-AICTE Consortium)**	
	Indian	86
	Gift	35
	Total	**121**
(iii) No. of Books Catalogued, Classified and Processed	General	3545
	Book Bank	2163
	Total	**5708**
(iv) Expenditure Incurred by the Library during 2010-11	**BOOKS (In Rs.)**	
	General Books	1,24,33,439.00
	Book Bank	16,44,625.00

JOURNALS/MAGAZINES (in Rs.)	
Indian	1,28,000.00
Foreign	e-journals through INDEST
Magazine	18,608.00
DELNET Membership	7,500.00
LIBSYS AnnualSupport And Software Dev	79,992.00

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, 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 pediatrician (once a week), one gynecologist 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 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

There are one telephone booth (STD/PCO) and two copier centres inside the campus serving the needs of the students and staff. The Institute also has two canteens and one cafeteria near the students' hostels. There are branches of State Bank of India and Canara Bank in the Institute campus. An ATM counter was opened by SBI in the campus.

The Institute has three playgrounds used regularly by the students as well as residents of the campus. A higher secondary school is also located inside 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. They receive annual grants from the Institute to meet a part of the financial expenses.

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 football ground called The Lords adjacent to the hostels. There is one concrete tennis and basketball court each and two volleyball court with flood light facilities. Most of the hostels have their own volleyball courts with indoor games facilities.

9.8 Other Facilities like Hostels, Messes, Staff Quarters, Administration, etc.

The Institute has seven boys' hostels and three (including the new 264 seated) hostels for girls' students. Five of the boys' hostels are of the capacity of 250 each and the capacity of sixth and

seventh hostels is 120 and 360, respectively. Two of the girls' hostels are of capacity of 126 eachand the third one has the capacity for 264 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 under construction consisting of 32 numbers of quarters. The construction of Prof. S. N. Ray memorial building is completed and the interior decoration along with allied works will be taken up shortly by NID Ahamedabad. The construction of an academic block is in its mid stage. 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 nearing completion.

Construction of chemistry and Bio-Technology Department is in its mid stage. Construction of VIP Guest House is in progress.

Site preparation work of 1500 capacity Auditorium and International students Hostel is in progress. Institute is likely to augment its electrical supply source through DVC shortly. Institute is expecting to receive the said power supply in September 2012.

10. NOTABLE ACHIEVEMENTS

10.1 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, 16 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 as a 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 the polytechnic institutes.

- The Institute was recognised by AICTE as a continuing Education Centre under C-NANCE scheme.

- 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 sposoring five scholarships to UG students.

10.2 Achievements during the Year

- NIT Durgapur has completely implemented the reservation for OBC students (27%) in UG and PG programmes.

- The Institute initiated activities in TEQIP-II, a World Bank assisted programme for improvement in quality of technical education.

- A new M. Tech. programme in Software Engineering was introduced by Department of Computer Applications in the session 2011-12.

- 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.

- Department of Physics was selected in the FIST programme of Department of Science and Technology, Government of India.

- Forty eight sponsored projects are being executed by the faculty members presently.

- The faculty members of the Institute have publication and acceptance of 336 papers in peer-reviewed journals and also published 356 papers in proceedings of national and international conferences in 2011-12 vis-a-vis 318 and 387 in 2010-11.

- Faculty members acted as reviewers for 168 peer-reviewed journals and books

- Two hundred and eleven PhD regisered research scholars are carrying out doctoral research.

- Twenty four scholars were awarded PhD degree by the Institute in 2011-12.

- Out of 590 B. Tech. students, 498 have been placed through in-campus interviews in the session 2011-2012. In addition, 117 students got their second job.

- In 2011-12 three pre-final year students did the summer internship at CERN, Geneva. Four students did internship in Germany, including DAAD and five students went to NUS, Singapore for internship. Altogether, 21 students participated in summer internship abroad in different universities in USA, Sweden, Italy, France, etc. Six students presented papers in international conferences abroad.

- The Institute organized "INSPPIRE" programme, sponsored by DST. Two Hundred and twenty eight school students participated in the programme where eminent scientists from different parts of the country addressed them.

- The seventh Convocation of the Institute was held on September 24, 2011 in which His Excellency Shri M. K. Narayanan, Hon'ble Governor, West Bengal delivered the Convocation Address as the Chief Guest. The Guests of Honour were Professor (Dr.) Günther Rosner, Director Research, FAIR, GSI Darmstadt, Germany and Shri S. Thakur, Distinguished Scientist & Fellow, Nuclear Power Corporation of India Ltd. Dept. of Atomic Energy and Former Executive Director (Corporate Planning & Corporate Communications), NPCIL. Professor Bikash Sinha, Chairman, Board of Governors, presided over the function.

- National Institute of Technology Durgapur was mentoring the newly established NIT, National Institute of Technology Arunachal Pradesh since its inception and charges were finally handed over by Mentor-Director, Director, NIT Durgapur to Director, NIT Arunachal Pradesh on November 01, 2011.

- National Institute of Technology Durgapur is still mentoring another newly established centrally-funded technical institution, Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal.

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. Bikash Sinha** Homi Bhabha Professor, Department of Atomic Energy and Director (Retd.) Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata – 700 064	Chairman
02.	(b)	**Prof. T. Kumar** Director, NIT, Durgapur	Ex-Officio Member
03.	(c)	Special Secretary/ Additional Secretary/ Joint Secretary Dealing with Technical Education, Department of Higher Education, Ministry of Human Resource Development, Shashtri Bhawan, New Delhi – 110 001 **Sri R.D. Sahay**, Joint Secretary (TE)	Member
04.	(c)	Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Shashtri Bhawan, New Delhi – 110 001 **Shri A. N. Jha**, Joint Secretary	Member
05.	(d)	**Prof. Siddhartha Datta** Pro vice-Chancellor, Jadavpur University, Kolkata – 700 032 (W.B.)	Member
06.	(d)	**Dr. Sajal Dasgupta** Director of Technical Education, Govt. of West Bengal Bikash Bhawan, Salt Lake, Kolkata	Member
07.	(e)	**Prof. Avijit Chakrabarti** Professor, Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata – 700 064	Member
08.	(e)	**Dr. (Ms.) Nabanita Das** Professor, Advanced Computing & Micro-electronics Unit, Indian Statistical Institute, 203, B. T. Road, Kolkata – 700 108	Member
09.	(f)	**Prof. M. C. Majumder** Professor, Dept. of Mechanical Engineering, NIT, Durgapur	Member
10.	(f)	**Dr. Dipankar Sukul** Associate Professor, Dept. of Chemistry, NIT, Durgapur	Member
11.	Section 18 Clause (2)	**Dr. A. Gangopadhyay** Registrar (I/C) NIT, Durgapur	Secretary

Annexure-11.3(a) Finance committee

1.   **Prof. Bikash Sinha**   Chairman
     Chairman, Board of Governors
     NIT, Durgapur

2.   **Prof. T. Kumar**   Member Secretary
     Director, NIT, Durgapur

3.   **Sri R.D. Sahay**   Member
     Joint Secretary (TE), Govt. of India
     Ministry of Human Resource Development,
     Dept. of Higher Education
     Shashtri Bhawan, New Delhi – 110 001

4.   **Shri A. N. Jha**   Member
     Joint Secretary, Integrated Finance Division
     Govt. of India
     Ministry of Human Resource Development,
     Dept. of Higher Education
     Shashtri Bhawan, New Delhi – 110 001

5.   **Prof. Siddhartha Datta**   Member
     Provice-Chancellor, Jadavpur University
     Kolkata – 700 032 (W.B.)

6.   **Prof. M. C. Majumder**   Member
     Professor, Dept. of ME, NIT, Durgapur

7.   **Dr. A. Gangopadhyay**   Member
     Registrar (I/C), and
     Secretary, BOG, NIT, Durgapur

Annexure-11.3(b) Building and Works committee

1.	**Prof. T. Kumar** Director, NIT Durgapur	Chairman
2.	Director (Integrated Finance Department) or Nominee of Integrated Finance Department, MHRD, New Delhi	Member
3	Nominee of Technical Education, MHRD, New Delhi	Member
4	**Shri Satyaki Sen** Director, M.N Dastur & Co.(Pvt) Ltd. Kolkata & Nominee of BOG , NIT Durgapur	Member
5	**Shri A.K Bhadra** Chief Engineer (Electrical)-I, PWD, Kolkata & Nominee of PWD(Electrical Wing)	Member
6	**Shri. Partha Gangopadhyay** Superintending Engineer, Survey & Design Division PWD, Kolkata & Nominee of PWD(Civil Wing)	Member
7	**Shri C.K Varma** Superintending Engineer (Electrical) P&A, CPWD,Kolkata & Nominee of CPWD(Electrical Wing)	Member
8	**Shri S.L Meena** Superintending Engineer, Kolkata Central Circle-II, CPWD, Kolkata & Nominee of CPWD(Civil Wing)	Member
9	**Dr. A.Gangopadhyay** Associate Professor of Geology & Registrar(In Charge) NIT,Durgapur	Member
10	**Dr. S. Haldar** Prof. of Chemical Engg. & Dean (Planning & Development), NIT Durgapur	Convenor & Secretary

Annexure-11.3(c) List of Senate members as on 31/03/2012

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NOMINATED MEMBERS		
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Sri. R Chakraborty, HOD	rajiby2k1@yahoo.co.in	9434788007

PHYSICS

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Annexure - 11.4(a)   Ongoing sponsored projects

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
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	2011
Investigation of functional overlap between ZBF1/MYC2 and ZBF2/GBF1 in Arabidopsis seedling development and light regulated gene expression	Chattopadhyay S.	DST–SERC	38 lakhs	2010
Development of a Green Technology for Improvement of Paper Quality and to Minimize the Generation of Genotoxic Effluents	Dasgupta Mandal D. Dey A. Mandal T.	DBT	26 lakhs	2012
Assessment on the reduction of toxic organics and other pollutants present in Industrial wastewater using soil and flyash as liner materials: Batch and Continuous Column Studies	Das P.	DST-SERC Fast Track Project for Young Scientist	23 lakhs	2011
Characterization and optimization of pigment production from an isolated strain	Dutta D. Chaudhuri S.	UGC-Major Project	10,17,800/-	2010
Over-riding drug resistance in visceral leishmaniasis by combinatorial therapy with sub-optiml dose of HMG-CoA reductase inhibitor, Statin and trivalent Chromium complex, involving Src-family tyrosine kinase	Ghosh M.	Rapid Grant for Young Investigators (RGYI) scheme, DBT	39.84 lakhs	2011
Assessment of Microbial Communities and their Biodegradation Potentials in Petroleum Contaminated environments in Assam	Kazy S K, NIT Durgapur Ghoshal A K, IIT Guwahati	DBT	~ 64 lakhs	2012
Exploration and Exploitation of microbial catabolic potentials for the bioremediation of selected heavy metal and hydrocarbon contaminants	Kazy S. K.	DST - SERC Fast Track Project for Young Scientist	~17 lakhs	2009
Functional genomics of G-protein coupled receptors (GPCRs) of Magnaporthe oryzae	Roy Barman S.	DST-SERC Fast Track Project for Young Scientist	23.4 lakhs	2012
Investigation of genetic and molecular interrelations of SHW1 and COP1 in *Arabidopsis* seedling development	Srivastava A. Chattopadhyay S.	DST-SERC Fast Track Project for Young Scientist	23 lakhs	2010

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST	All faculty of ChE Department	DST, Govt. of India	145.60 Lakh	2008
Grafting of the Fire Retardant Polymer on Rice (Oryza Sativa) straw for Enhancing the Durability of Hay-roofed Houses in the Poor people Dominated Backward Rural areas	Halder G. N. Mandal M.K.	DST-Govt of West Bengal	5.02 lakhs	2012
Study on Micro-porous Characteristics of activated carbon for PSA system employing Activated carbon-Nitrogen working pair	Halder G. N.	DST-Govt of India	13.5 lakhs	2010
Production of Lactic acid in Membrane-integrated Hybrid Reactor system – A Green Technology Approach	Pal P.	DST, Govt. of India	18.78 Lakhs	2009
Capturing Oscillations of Void Fractions in Boiling Natural Circulation Loop using Laser Doppler Anemometry and Impedance Probe	Paruya S. Sarkar J. P. Gupta P.	DST, Govt. of India	33. 02 lakhs	2010

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Modification of sperm plasma membrane structure and function using exogenous lipid and its application in cryopreservation	Chakrabarty J.	DST-SERC Fast Track Project for Young Scientist	19.22 lakhs	2009
A study on the differential binding and recognition of mononuclear-metal ions at different sites of Metallo-apoprotein by MD-Simulation methods	Mukhopadhyay B.P.	Department of Science and technology (DST), Govt. Of India	10.67 lakhs	2011
Bioinformatics Study on the Recognition and Dynamic of the water Molecules in the Human Inosine Monophosphate Dehydrogenase (IMPDHII) and Inhibitor Design	Mukhopadhyay B.P.	Department of Biotechnology (DBT), Govt. Of India	22.644 lakhs	2010
Rhodamine-based new fluorescence probe for biologically important metal ions.	Panja S.S.	DST-SERC Fast Track Project for Young Scientist	18.96 lakhs	2009
A study on the corrosion inhibition properties and adsorption characteristics of some recognitive biomolecules on the metals	Sukul D.	DST-SERC	23.65 lakhs	2011

Department of Civil Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount	Starting Year
Development of Decision Support System for water resource management and flood mitigation of river Kosi system lying in India and Nepal	Dwivedi V.K.	Swedish Research Council, Sween	240 thousand Swedish kroner	2010
Experimental set up for formation of river bed form and erosion around an island in a natural stream. 200 T Universal Testing Machine with the facilities of tensile test of bars, bond test between steel and concrete, bend-rebend test etc.	Dept. of Civil Engineering	DST, Govt. of India	50 lakhs rupees	2007

Department of Computer Science and Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST	Roy S. Sanyal G. Sen B. GuhaThakurta P.	Department of Science and Technology, Government of India.	54 Lakhs	2010

Department of Electrical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Optimal allocation of FACTS Devices and their coordinated operation for power flow control and enhancement of voltage stability using soft computing technique	Acharjee P.	DST-SERC Fast Track Project for Young Scientist	10.38 lakhs	2009
FIST program on Advanced Power Systems; Advanced Control Systems & Machine Drives	All faculty of EE Department	DST-FIST	108 lakhs	2009
Development of DC electromagnetic levitation systems–suitable for specific industrial applications	Banerjee S. Saha T.K.	DST, SERC	26.83 lakhs	2010
Control System Design Using Periodic Feedback Compensation: A Practical Approach	Dey J.	DST - SERC Fast Track Project for Young Scientist	13.6 lakhs	2009
Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-learning	Dutta S. (ChE) Ghosh S. (EE) Koley C. (EE) Kumbhakar P.(PH) Mandal T. (ChE) Mandal M. K. (PH) Paruya S. (ChE) Roy N. K. (EE) Sarkar J. P.(ChE)	National Mission Project on Education through ICT MHRD, Govt. of India	15 lakhs	2009

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
	Bhattacharya P. (JU)			
Application of Non-linear Robust Control Strategies for Air-Flow Control	Koley C.	DST - SERC Fast Track Project for Young Scientist	19 lakhs	2010

Department of Electronics and Communication Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST-FIST	All faculty of the department	DST, Govt. of India.	Rs 108 lakhs	2011
SMDP (Phase II) on VLSI	All faculty of the department	Ministry of Communication and Information Technology, Govt. of India	Rs. 150 lakhs (Approx)	2005
Development of Antennas for Ultrawideband Pulse Based Wireless Communication and Imaging Systems	Ghatak R.	DST Fast Track for Young Scientist	16.86 lakhs	2010

Department of Information Technology

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Information Security Education and Awareness Project	Choudhury S.	Dept. of Information Technology, Ministry of Information and Communication, Govt. of India.	21 lakhs	2006
Institute of Open Technology and Application	Choudhury S.	Ministry of Information Technology, Govt. of West Bengal	10 lakhs	2008

Department of Management Studies

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Red brick cluster development project	Roy M.	Govt. of India Through Govt. of W.B.	4.0 lakh	2010

Department of Mechanical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Design and Development of Adaptive Motion Planners for Multiple Mobile Robots	Hui, N. B.	DST, New Delhi	14 lakhs	Sep' 2009

Department of Metallurgical and Materials Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of cast high strength microalloyed steels	Ghosh K. S. Mitra S. K. Chakrabarti A. K. Mondal D. K.	CSIR, New Delhi	4.68 lakhs	November 2010
DST-FIST	MME Dept.	DST, Govt. of India	117 lakhs	April 2009

Department of Physics

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Design and exploration of nanocrystalline multiferroic materials	Basu S.	BRNS,DAE, GOI	Rs.34.88 Lakhs	2011
Development and Characterizations of Multiferroics nanomaterials	Basu S.	DST - SERC Fast Track Project for Young Scientist	Rs. 21.24 Lakhs	2010
Synthesis of doped nanomaterials for nonlinear optical applications	Kumbhakar P.	DST - SERC Fast Track Project for Young Scientist	13.44 lakhs	2009
Design and Applications of Ring Oscillators in Communication Systems	Mandal M. K.	DST - SERC Fast Track Project for Young Scientist	Rs.12.48 Lakhs	2011

Annexure - 11.4(b)   Projects completed during 2011-12

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring authority
Assessment of microbial diversity and community structure and their role in arsenic transformation and mobilization in arsenic contaminated groundwater of West Bengal.	Kazy S. K., NITD; Sar P., Gupta A.K., IIT, Kharagpur.	DBT (RGYI scheme)

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Technology Development of Liquid Phase Adsorption of Mercury Using Low-cost Adsorbent for Better Management of Industrial Wastes	Dutta S., De P. (C.U.) Basu S (H.I.T.Kolkata)	DST, Govt. of India

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring authority
Synthetic Modelling of Copper Proteins Active Sites	Patra A. K.	DST-SERC

Department of Mathematics

Title of the Project	Investigator(s)	Sponsoring Organisation
Solution of some optimization problem using graph theoritic approach	Pal A.	DST, Govt. of India

Department of Metallurgical and Materials Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Studies of Mechanical Properties andCorrosion Behaviour of HSLA	Ghosh K. S. Mondal D. K.	NRB, New Delhi

Department of Physics

Title of the Project	Investigator(s)	Sponsoring authority
Characterisation of graphene reinforced epoxy nanocomposites	Chakraborty, A.K.	Indo-Swiss Joint Research Program

Annexure–11.4(c) i. Research papers published in peer-reviewed journals during 2011-12

Department of Biotechnology

1. Bajpai, V., Bajpai, S., Jha, M.K., Dey, A., Ghosh, S., 2011. Microbial adherence on textile materials- A review. J Environ Res Dev, 5(3), 666-672.

2. Bajpai, V., Dey, A., Ghosh, S., Bajpai, S., Jha, M.K., 2011. Quantification of bacterial adherence on different textile fabrics. Int Biodeterior Biodegrad, 65(8), 1169-1174.

3. Bhunia, B., Dey A., 2012. Statistical approach for optimization of physiochemical requirements on alkaline protease production from *Bacillus licheniformis NCIM-204*, Enzyme Research 905804.

4. Chakraborty, S, Chowdhury, S., Das Saha P., 2011. Adsorption of Crystal Violet from aqueous solution onto NaOH-modified rice husk, Carbohydrate Polymers 84, 1533-1541.

5. Choudhary, S., Islam, E., Kazy, S. K., Sar, P., 2012. Uranium and other heavy metal resistance and accumulation in bacteria isolated from uranium mine wastes. Journal of Environmental Science and Health, Part A, 47, 622-637.

6. Chowdhury S., Chakraborty S., Das Saha P, 2011. Biosorption of Basic Green 4 from aqueous solution by *Ananascomosus* (pineapple) leaf powder, Colloids and Surfaces B*:* Biointerfaces, 84, 520-527.

7. Chowdhury S., Das Saha P., 2011. Biosorption kinetics, thermodynamics and isosteric heat of sorption of Cu (II) onto *Tamarindusindica*seed powder, Colloids and Surfaces B: Biointerfaces, 88, 697-705.

8. Chowdhury S., Das Saha P., 2011. Mechanistic, kinetic and thermodynamic evaluation of adsorption of hazardous malachite green onto conch shell powder, Separation Science and Technology, 46, 1966-1976.

9. Chowdhury S., Das Saha P., 2011. Pseudo-second-order kinetic models for the sorption of malachite green onto *Tamarindusindica*seeds: Comparison of linear and non-linear methods, Desalination and Water Treatment*,* 3, 229-236.

10. Chowdhury S., Das Saha P., 2011. Utilization of a domestic waste – Eggshells for removal of hazardous malachite green from aqueous solutions, Environmental Progress and Sustainable Energy, doi: 10.1002/ep.10564.

11. Chowdhury S., Das Saha P., 2011. Linear and nonlinear regression analyses for binary sorption kinetics of methylene blue and safranin onto pretreated rice husk, Bioremediation Journal, 15(2), 99-108.

12. Chowdhury S., Das Saha P., 2011, Comparative analysis of linear and non-linear method of estimating the pseudo-second-order kinetic parameters for sorption of malachite green onto pretreated rice husk, Bioremediation Journal , 15(4), 181-188.

13. Chowdhury S., Das Saha P., 2012. Scale-up of a dye adsorption process using chemically treated rice husk: Optimization using Response Surface Methodology, Desalination and Water Treatment, 37, 331-336.

14. Chowdhury S., Mondal M., Sinha .K, 2012. Biosorption of Direct Red 28 (Congo Red) from aqueous solutions by eggshells: Batch and column studies, Separation Science and Technology*,* 47, 112-123.

15. Chowdhury S,, Mishra, R. , Kushwaha P., Das P., 2011. Optimum sorption isotherm by linear and non-linear methods for safranin onto alkali treated rice husk, Bioremediation Journal, 15(2), 77-89.

16. Das Saha P., Chakraborty S., Chowdhury S., 2012. Batch and continuous (fixed-bed column) biosorption of crystal violet by *Artocarpusheterophyllus* (Jackfruit) leaf powder, Colloids and Surfaces B: Biointerfaces, 92, 262-270.

17. Das Saha P., Dutta S., 2012. Mathematical modelling of biosorption of safranin onto rice husk in a packed bed column using artificial neural network analysis, Desalination and Water Treatment , 41, 308-314

18. Das Saha P., Sengupta R., Saha J., Banerjee P. K., 2012. Assessment on the water quality characteristics of River Ganga at Kolkata Region, India using Water Quality Index and ANN simulation method, Archives of Environmental Science, 6, 34-41.

19. Das Saha P,. Sinha K., 2012. Natural dye from bixa seeds as a potential alternative to synthetic dyes for use in textile industry, Desalination and Water Treatment, 40, 298-301.

20. Das Saha P., Dey A., Marik P., 2012. Batch removal of chromium (VI) from aqueous solutions using wheat shell as adsorbent: process optimization using Response Surface Methodology, Desalination and Water Treatment, 39, 95-102.

21. Dhal, P. K., Islam, E., Kazy, S. K., Sar, P., 2011. Culture-independent molecular analysis of bacterial diversity in uranium-ore/-mine waste-contaminated and non-contaminated sites from uranium mines, 3 Biotech, 1, 261-272.

22. Ganguly, A., Chatterjee, P.K., Dey, A. 2012. Studies on ethanol production from water hyacinth—A review. Renew Sust Energ Rev, 16, 966-972.

23. Islam, E., Dhal, P. K., Kazy, S. K., Sar, P., 2011. Molecular analysis of bacterial communities in uranium ores and surrounding soils from Banduhurang open cast uranium mine, India: A comparative study. Journal of Environmental Science and Health, Part A, 46, 271–280.

24. Mondal, S., Bardhan, R., Mondal, B., Dey, A., Mukhopadhyay, S. S., Guha, R., Roy, K., Roy,S., 2012. Synthesis, characterization and in vitro cytotoxicity assessment of hydroxyapatite from different bio sources for Tissue engineering application, Bulletin of Materials Science (BOMS-D-11-00272), 35.

25. Padmapriya, K., Dutta, A., Chaudhuri, S., Dutta, D., 2012. Microwaveassisted extraction of mangiferin from *Curcuma amada*, 3 Biotech, 2, 27-30.

26. Pramanik, V., Sarkar, B.N., Kar, M., Das, G., Barman, M.K., Khannam, S.K., Bhaskar, L.V.K.S., Rao, V.R. 2011. A Novel Polymorphism in codon 25 of KRAS Gene Associated with Gall bladder carcinoma Patients of Eastern Part of India. Genetic Testing and Molecular Biomarkers, 15, 431-434.

27. Samal R.N., Saha P., Roy P K., Biswasroy M., Mazumdar A., 2011. Limnological analysis of an urban polluted lake in Bangalore city in India, Desalination and Water Treatment, 30, 217-228.

28. Singh, S.K., Bansal, A., Jha, M.K., Dey, A. 2012. An integrated approach to remove Cr(VI) using immobilized Chlorella minutissima grown in nutrient rich sewage wastewater. Bioresour Technol, 104, 257-265.

29. Sinha K., Das Saha P., Datta S. 2012, Optimization and modeling of natural dye extraction assisted by microwave from pomegranate rind using Response Surface Methodology and Artificial Neural Network, Industrial Crops and Products, 37, 408-414.

30. Sinha K., Das Saha P., Datta S. 2012. Extraction of natural dye from petals of Flame of forest (*Buteamonosperma*) flower: Process optimization using Response Surface Methodology (RSM), Dyes and Pigments, 94, 212-216.

31. Sohpal, V.K., Singh, A., Dey, A. 2011. A comparative study of molar ratio effect on transesterification of Jatropha Curcas using kinetic and fuzzy techniques. Int J Oil Gas Coal Technol, 4, 296-306.

Department of Chemical Engineering

1. Chatterjee, S., Kumar, A., Basu, S., Dutta, S., 2012. Application ofResponse Surface Methodology for Methylene Blue dye removal from aqueoussolution using low cost adsorbent, Chemical Engineering Journal, 181– 182, 289– 299.

2. Dey, P., Sikder, J., Roy, S., Pal, P. 2012.   Fermentative lactic acid production from a renewable carbon source under response surface optimized conditions without alkali addition: a membrane-based green approach, Clean Technology & Environmental Policy, 14(5).

3. Dey, P., Pal, P., 2012. Direct Production of L(+) Lactic acid in a continuous and fully membrane-integrated hybrid reactor system under non-neutralizing conditions , Journal of Membrane Science, 389,353-362.

4. Dey, P., Linnanen, L., Pal, P., 2012. Separation of Lactic acid from Fermentation Broth by Cross flow Nanofiltration: membrane characterization and transport modelling, Desalination, 288, 47-57.

5. Kumar, R., Bhakta, P., Chakraborty, S.,   Pal, P., 2011. Separating Cyanide from Coke Wastewater by Cross Flow Nanofiltration. Separation Science and Technology, 46, 2119–2127.

6. Kumar, A., Halder, G. N., Roy, Z., Sarkar, S. C., Yadav, A., 2012. A simple calorimeter to measure specific heat of activated carbon prepared for pressure swing adsorption refrigeration system, Canadian Journal of Chemical Engineering, 9999, 1-9.

7. Narayanan, C.M., Banik M., Halder S, 2011. Performance Analysis of Immobilized Enzyme Semifluidized Bed Bioreactors, International J. Chemical Reactor Engineering, Vol. 9, Article A111.

8. Narayanan, C.M., 2011. Performance Analysis of Constricted Tube Ultrafiltration Unit for the Production of Food – grade Protein Concentrates from Food Wastes, Journal of Chemical Engineering And Material Science, 2, 149 – 155.

9. Narayanan, C.M., 2011. Studies on Performance Characteristics of Circulating Fluidized Bed Bioreactors Employing Immobilized Enzyme Nanoparticles, IUP Journal of Chemical Engineering, Vol.III, No.4, 17 – 26.

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1. Chakraborty, G., Meikap, A.K., Babu, R., Blau, W.J., 2012.Activation Behaviour and Dielectric Relaxation in Polyvinyl Alcohol and Multiwall Carbon Nanotube composite films, Solid State Commun. 151, 754-758.

2. Chakraborty, G., Gupta, K., Meikap, A.K., Jana, P.C., 2011. Influence of Multiwall Carbon Nanotubes on Direct Current Electrical Transport and Magnetotransport Properties of Conducting Polymers. J. Phys. Sci. 15, 231-240.

3. Chakraborty, G., Gupta, K., Meikap, A.K., Babu, R., Blau, W.J., 2012. Synthesis, Electrical and Magnetotransport Properties of Polypyrrole-MWCNT Nanocomposite, Solid State Commun. 152, 13-18.

4. Chakraborty, G., Gupta, K., Rana, D., Meikap, A.K., 2012. Anomalous Electrical Transport Properties of the composite of Multiwall Carbon Nanotube-Polypyrrole-Polyvinyl Alcohol Below Room Temperature, Polymer Composites, 33, 343-355.

5. Chakraborty, S., Kole, A. K., Kumbhakar, P., 2012. Room temperature Chemical Synthesis of Flower like ZnO Nanostructures, Materials Letters, 67(1), 362-364.

6. Chakraborty, A. K.,T. Plyhm, A. Necola, M. Barbezat, G. Terrasi, 2011. *Carbon nanotube (CNT) - epoxy nanocomposites:* A systematic investigation of CNT dispersion, J. Nanoparticle Research, 14, 6493.

7. Chattopadhyay, D., Nandi, D., Mandal, M. K., 2012. Reduction of Dynamical Degradation in Chaotic Image Encryption System by Coupling Multiple Chaotic Maps and Perturbation, Int. J. of Engineering and Technology, 2(3), 425-439.

8. Chattopadhyay , D., Mandal, M. K.,Nandi, D., 2011. Symmetric key chaotic image encryption using circle map, Indian J. of Science & Technology, 4(5), 1-7.

9. Chattopadhyay, D., Mandal, M. K., Nandi, D., 2011. Robust Chaotic Image Encryption based on Perturbation Technique, ICGST Int. J. of Graphics, Vision & Image Processing, 11 (4), 41-50.

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11. Ghatak, S., Chakraborty, G., Sinha, M., Pradhan, S.K., Meikap, A.K., 2011. Direct and Alternate Current Conductivity and Magnetoconductivity of Nanocrystalline Cadmium-Zinc Ferrite below room Temperature, Materials Science and Applications, 2, 226-236.

12. Ghatak, S., Sinha, M., Pradhan, S.K., Meikap, A.K., 2011. Anomalous Electrical Transport Properties of Nonstoichiometric Nickel ferrite below room Temperature, Mater Res. Bull, 46, 1055-1064.

13. Ghatak, S., Chakraborty, G., Sinha, M., Pradhan, S.K., Meikap, A.K., 2011. Dielectric relaxation and magnetic field dependent alternating current conductivity of nanocrystalline cadmium-zinc ferrite below room temperature, Physica B, 406, 3261-3266.

14. Goswami, M., Ghosh, R., Chakraborty, G., Gupta, K., Meikap, A.K., 2011. Optical and Electrical Properties of Polyaniline-Cadmium SulfideNanocomposite, Polymer Composites, 32, 2017-2027.

15. Gupta, K., Chakraborty, G., Jana, P.C., Meikap, A.K., 2011. Temperature Dependent dc and ac Electrical Transport Properties of Composite of PolyanilineNanorod with Copper Chloride, Solid State Commun, 151, 573-578.

16. Gupta, K., Jana, P.C., Meikap, A.K., 2011. Synthesis, electrical transport and optical properties of polyaniline-zirconium, nanocomposite, J. Appl. Phys, 109, 1-9.

17. Gupta, K., Jana, P.C., Meikap, A.K., 2012. Electrical Transport and Optical Properties of the Composite of Polyanilinenanorod with Gold, Solid State Sci., 14, 324-329.

18. Gupta, K., Jana, P.C., Meikap, A.K., 2012. High Magnetoresistance of the composite of Polyaniline Nanotubes with $La_{0.67}Sr_{0.33}MnO_3$. Determination of Stiffness Constant and Range of Interaction of this Composite,Int. J. Soft Comp. Engg., 1, 10-14.

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20. Kole, A. K., Kumbhakar, P., 2012. Effect of manganese doping on the photoluminescence characteristics of chemically synthesized zinc sulfide nanoparticles, Applied Nanoscience, 2 (1), 15-23.

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26. Mondal, B., Usha, K., Mahata, S., Kumbhakar, P., Nandi, M. M., 2011. Synthesis and characterization of nanocrystalline TiO_2 thin films for use as photoelectrodes in dye sensitized solar cell application, Transactions of the Indian Ceramic Society, 70 (3), 173-177.

27. Mukherjee, K., Meikap, A.K., Kumbhakar, D., 2012. Frequency encoded all optical single bit memory unit using difference frequency generation alone, Opt. Quant. Electron., 43, 101-107.

28. Pathak, C. S., Mandal, M. K., 2011. Optical properties of Mn^{2+} doped ZnS nanoparticles, Asian J. of Chemistry, 23 (10), 4655-4658.

29. Paul, R., Kumbhakar, P., Mitra, A.K., 2011. Blue-green luminescence of chemically synthesized MWCNT/CdSnanohybrid structure, International Journal of Nanoscience, 10, 223-226.

30. Paul, R., Kumbhakar, P., Mitra, A.K., 2011. Green luminescence from triphenylphosphine functionalized single-wall carbon nanotubes, Applied Surface Science, 257 (15), 6699-6703.

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33. Sahoo, S., Das, C. K., Maharana, L., 2011. Effect of Z'–mediated Flavor-Changing Neutral Currents on $B \to \pi\pi$ decays, Physics of Atomic Nuclei, 74(7), 1032 – 1039.

34. Sahoo, S., Das, C. K., Maharana, L., 2011. The Prediction of mass of Z'–Boson from $B_q^0 - \overline{B_q^0}$ mixing, International Journal of Modern Physics A, 26(20), 3347–3356.

35. Sahoo, S., Dutta, A. K., 2011. Fractional Quantum Hall effect in Bilayer Graphene, International Journal of NanoScience and Nanotechnology, 2(3), 189–199.

36. Sahoo, S., 2012. The Higgs Boson and the Z' Boson, Orissa Journal of Physics, 19(1), 95–103.

37. Sahoo, S., 2012. A Brief Discussion on the Expansion of the Universe, Instasci J. of Physics, 2(1), 1–8.

38. Sinha, S., Chatterjee, S. K., Meikap, A. K., 2011. Electro-optical response of the combination of two twisted nematic liquid crystal cells in series and the applicability of the extended Jones matrix AIP Advances, 1 042167, 1-6.

Annexure–11.4(c) ii. Research papers accepted for publication in peer-reviewed journals during 2011-12

Department of Biotechnology

1. Bajpai, S., Gupta, S. K., Dey, A., Jha, M. K., Bajpai, V., Joshi, S., Gupta, A., 2012. Application of Central Composite Design approach for removal of Chromium (VI) from aqueous solution using weakly anionic resin: Modeling, Optimization, and Study of interactive variables. Journal of Hazardous Materials.

2. Bhunia, B., Basak, B., Dey, A., 2012. A review on Production of Serine Alkaline Protease by Bacillus spp. Journal of Biochemical Technology.

3. Chakraborty, S., Chowdhury, S., Das Saha P., 2012. Insight into biosorption equilibrium, kinetics and thermodynamics of crystal violet onto *Ananuscomosus* (pineapple) leaf powder, Applied Water Science, doi: 10.1007/s13201-012-0030-9.

4. Chakraborty, S., Chowdhury, S., Das Saha. P., 2012. Adsorption of Crystal Violet from aqueous solution onto sugarcane bagasse: Central composite design for optimization of process variables, Journal of Water Reuse and Desalination.

5. Chakraborty, S., Chowdhury, S., Das Saha, P., 2012. Batch removal of Crystal Violet from aqueous solution by H_2SO_4 modified sugarcane bagasse: Equilibrium, kinetic and thermodynamic profile, Separation Science and Technology.

6. Das Saha P., Chowdhury S., Datta S., Sanyal S. K., 2011. Removal of Pb (II) from aqueous solutions by adsorption onto clayey soil of Indian origin: Equilibrium, kinetic and thermodynamic profile, The Korean Journal of Chemical.

7. Das Saha. P., 2011. Water quality characteristics of different industrial wastewater by DELPHI water quality index method, International Journal of Environmental Engineering.

8. Goswami, G., Chakraborty, S., Chaudhuri, S., Dutta, D., 2012. Optimization of processsparameters by response surface methodology and kineticmodeling for batch production of canthaxanthin by *Dietzia maris* NIT-D, Bioprocess and Biosystems Engineering, DOI 10.1007/s00449-012-0726-0.

9. Mukhopadhy D., Bhunia B., Goswami S., Mandal T., Dey A., 2012. Improved production, characterization and flocculation properties of poly (γ)-glutamic acid produced from *Bacillus subtilis.* Journal of Biochemical Technology.

10. Sinha K., Das Saha P., Datta S., 2012. Extraction of blue floral dye from Butterfly Pea for using as dye in Textile Industry, Research Journal of Textile and Apparel.

11. Sinha, K., Das Saha. P., Ramya, V., Datta, S., 2012. Improved extraction of natural blue dye from Butterfly Pea using microwave assisted methodology to reduce the effect of synthetic blue dye, International Journal of Chemical Technology*.*

Department of Chemical Engineering

1. Narayanan, C. M., 2012. Production of Phosphate Rich Biofertiliser using Vermicompost and Anaerobic Digestor Sludge – A Case Study, Advances in Chemical Engineering and Science.

2. Narayanan, C. M., Samui, E., Chatterjee, A., Das, S., 2012. A Parametric Study of Performance Characteristics of Upflow Anaerobic Sludge Blanket Bioreactors, Research J. Chemical Sciences.

3. Narayanan, C. M, Banerjee, A., 2012. Computer Aided Analysis, Simulation and Optimisation of Thermal Sterilization Processes, Research Patents in Biotechnology.

Department of Civil Engineering

1. Ghosh, S., Roy, P., 2012. Quantification of the uncertainty in stress index B_2 for pipe bends subjected to out-of-plane bending. International Journal of Pressure Vessels and Piping.

2. Nanda, R.P., Agarwal, P., Shrikhande, M., 2012. Suitable friction sliding materials for base isolation of masonry buildings, Journal of Shock and Vibration.

3. Roy, P., Ghosh, S., 2012. Statistical characterisation of B_2 for nuclear pipe bends: in-plane closing moment. Nuclear Engineering and Design.

Department of Computer Applications

1. Choudhury, P., Nandi, S., Debnath N. C., 2012. A Publish/Subscribe system using distributed Broker for SOA based MANET Applications, Accepted in Journal of Computational Methods in Science & Engineering.

2. Sarkar, A., Debnath N.C., 2012. Business Object Oriented Requirements Engineering Framework, Journal of Computational Methods in Science & Engineering.

3. Das, S., Kumar, M., Ghosh, D., 2012. Enhancement of Forensic Capabilities of the Linux Kernel Via File Timestamp Preservation, Special Issue of the Journal of Computational Methods in Science and Engineering.*

    * Repeated in other departments

Department of Computer Science & Engineering

1. Das. S., Kumar. M., Ghosh. D., 2012. Enhancement of forensic capabilities of the linux kernel via file timestamp preservation. Special Issue of the Journal of Computational Methods in Science and Engineering, IOS Press, Netherlands.*

2. Guha Thakurta, P. K., Basu, S., Goswami, S., Bandyopadhyay, S., 2012. A New Approach on Cluster based Call Scheduling for Mobile Networks. Journal of Advances in Information Technology, 3(2), Academy Publisher, Finland.

3. Hossain Md. A., Samanta D, Sanyal G, 2012. Eye Diseases Detection Based on Covariance. International Journal of Computer Science, Information Technology & Security (IJCSITS), 2(2).

4. Mukhopadhyay. S., Ghosh. D., Debnath. N. C., 2011. An efficient Mechanism Design Approach for alternate Solutions to FCFS Approach towards Ticket Market . Special Issue of the Journal of Computational Methods in Sciences and Engineering. Amsterdam.*

5. Samanta D., Sanyal G., 2012. Statistical approach for Classification of SAR Images, International Journal of Soft Computing and Engineering (IJSCE), 2(2).

6. Sarker. G., 2012. A Multilayer Network for Face Identification and Localization, accepted for publication in International Journal of Computer, Information Technology and Engineering (IJCITAE).

   * Repeated in other departments

Department of Electrical Engineering

1. Bhatt P., Roy R., Ghoshal S. P., June, 2011. Short Term Active Power Support from DFIG in Association with SMES for Automatic Generation Control of Interconnected Two-Area Restructured Power System, Elect. Power Components and System.

2. Biswas P. K., Banerjee S., March 2012. Effect of different parameters of Rail and Actuator used in Electromagnetic Levitation system. International Journal of Engineering and Advanced Technology.

3. Sarkar M. K., Banerjee S., Ghoshal S. P., Saha T. K, Feb. 2012. Adaptive Fuzzy gain scheduling scheme for GSA based sub-optimal PID and Lag-Lead control of a DC attraction type levitation system. International Journal of Automation and Control, Inderscience Publications.

Department of Electronics and Communication Engineering

1. Bhattacharjee A. K. et al., 2012. A Dual Wideband Sierpinski Carpet Fractal Shaped Planar Monopole Antenna with CPW Feed. International Journal of Microwave and Wireless Technologies, Cambridge University Press.

2. Chandra A., Bose C., Bose M. K. 2012. Performance of non-coherent MFSK with selection and switched diversity over Hoyt fading channel, Wireless Personal Communications.

3. Chandra A., Bose C., Bose, M. K. 2012. SEP of non-coherent MFSK with postdetection selection and switched combining over Hoyt fading channel, IET Communications.

4. Datta U., Sahu P. K., Kundu S., 2012. On performance of multi hop CDMA wireless sensor networks with correlated interferers. Int. J. Communication Networks and Distributed Systems.

5. Ghatak R., Goswami C., Poddar D. R. 2012. Investigations on Resonance and Radiation Characteristics of Rectangular Microstrip Antenna on Partial Inclusion of Metamaterial Substrate and Superstrate. Special issue of "Metamaterial: RF and Microwave Application" of International Journal of RF and Microwave Computer Aided Engineering".

6.   Ghatak R., Soren D., Mishra R. K., Poddar D. R. 2012.. Investigations on Modified Rectangular Fractal Curve Shaped Dielectric Resonator Antenna. International Journal of RF and Microwave Computer Aided Engineering.

7.   Mandal S., Ghoshal S. P., Kar R., Mandal D. 2012. Craziness based Particle Swarm Optimization Algorithm for FIR Band Stop Filter Design. Journal of Swarm and Evolutionary optimization.

8.   Mandal S., Ghoshal S. P., Kar R., Mandal D. 2012. Novel Particle Swarm Optimization for Low Pass FIR Filter Design. WSEAS Transaction on signal processing.

9.   Mandal S., Vasundhara, Bardhan S., Ghoshal S. P., Kar R., Mandal D. 2012. Optimal design of FIR filter using Social Emotional Optimization Algorithm (SEOA)", Signal, Image and Video Processing.

10. Nandi A., Kundu S., 2012 "On Energy Level Performance of Adaptive Power Based WSN in Presence of Fading". IJEIC, SERC.

Department of Humanities & Social Sciences

1.   Bhattacharya, S., Sengupta, P.P., 2012. Day of the Week Effect: An Empirical Analysis of National Stock Exchange, Zenith, 2(5).

2.   GuhaRoy, S., Banerjee, J., 2012. Conflicting Ideas in The God of Small Things, Anthology on Booker Prize Writers, India.

3.   Modak, A., Mukherjee, A., 2012. Etruscan Places— A New Dimension in Travel Literature, Contemporary Discourse, 3(2).

Department of Information Technology

1.   Mukhopadhyay S., Ghosh D., Debnath N.C., 2011. "A new framework for an efficient Ticket Booking Scheme based on Mechanism Design", In Special Issue of the Journal of Computational Methods in Science and Engineering (ICMSE).*

   * Repeated in other departments

Department of Management Studies

1.   Datta S., Dutta A., Choudhury S. 2012. A Survey of Multicasting in Optical Burst Switched Networks: Future Research Directions, International Journal of Computer Applications (IJCA).

Department of Mathematics

1.   Kundu, P., Kar S., Maiti, M. 2012. Multi-objective multi-item solid transportation problem in fuzzy environment", Applied Mathematical Modeling.

2.   Saha, A., Roy, A., Kar S., Maiti, M. 2012. "Multi-item two storage inventory models for breakable items with fuzzy cost and resources based on different defuzzification techniques" OPSEARCH.

3.   Mukherjee, S., Kar, S. 2012. "Application of Fuzzy mathematics and grey systems in education" Journal of King Saud University – Computer and Information Sciences.

4.   Das, D., Kar, M. B., Roy, A., Kar, S. 2012. "A multi-item inventory model for two-stage production system with imperfect processes using Differential evolution and Credibility measure" International Journal of Operations Research.

Deaprtment of Mechanical Engineering

1. Pramanik S., Acharya A. M., Das M. K. 2012. Numerical Simulation Of A Turbulent Confined Slot Impinging Jet, Ind. Eng. Chem. Res.

2. Roy S. S. 2012. Modelling and Predicting Surface Finish in Turning using an Adaptive Neuro-Fuzzy Inference System, International Journal of Intelligent Engineering Informatics.

Department of Metallurgical & Materials Engineering

1. Dasgupta, R. K., Mondal, D. K., Chakrabarti, A. K., Ganguli, A. C. 2012. Kinetics of Austenitisation of ductile irons containing varying amounts of manganese and copper Int. Jr. of Cast Metals Research.

2. Ghosh, M. M., 2012. Molecular Dynamics Simulation of Thermal Conductivity of Copper Nanoparticles, Advanced Science Letters.

3. Ghosh, K. S., Mukhopadhyay, S. Konar, B. Mishra, B., 2012. Study of Aging and Electrochemical Behaviour of Al-Li-Cu-Mg Alloys Materials and Corrosion, 63.

4. Maity, J., Pal, T. K., 2011. Transient liquid phase diffusion bonding of aluminium metal matrix composite using a mixed Cu-Ni powder interlayer, Journal of Materials Engineering and Performance.

5. Mallik, M., Kailath, A. J., Ray, K.K., Mitra, R., 2012, Electrical and thermophysical properties of ZrB_2 and HfB_2 based composites, Journal of the European Ceramic Society.

6. Mitra S.K., Ghosh, D., 2011. Influence of alloy grain size on high temperature corrosion behavior of 2.25 Cr-1 Mo steel in SO_2 +O_2 atmosphere, High Temperature Material and Processes.

7. Mitra S.K., Ghosh, D., 2011. High Temperature Corrosion Behavior of Cold Deformed 2.25Cr-1Mo Steel in SO_2 /O_2 Atmosphere, Journal of Material Research.

Department of Physics

1. Kumar, M., Sahoo, S., 2012. Time Interval and Lattice Vibration in Raman Effect, Photoelectric effect and Plane Mirror Reflection", *Modern Physics Letters B.*

2. Mukherjee A., Houssain SK. M., Pal M., S. Basu, 2012, Effect of Y –doping on optical properties of multiferroics $BiFeO_3$ nanoparticles, Applied Nanoscience.

3. Sahoo, S., Kumar, M., 2012. Creation of Tachyon Particles from Black Hole, New Advances in Physics.

4. Sahoo, S., Kumar, M., 2012. Creation and Annihilation of Ordinary Particles and Tachyon Particles from Black Hole, ARPN Journal of Science and Technology.

Annexure–11.4(d) Research papers presented in conferences and published in proceedings during 2011-12

Department of Biotechnology

1.   Chityala, S., Dasgupta mandal, D., 9 – 11 December, 2011. Genotoxicity of Chromium (VI) to plant systems and its Bioremediation, International Conference on Environment, Genes, Health and Diseases, organized by Bharatiar University, Coimbatore, Tamil Nadu, India.

2.   Choudhary, P., Das, R., Kazy, S. K., 24 – 26 February, 2012. Anthracene Biodegradation by Aerococcus sp. BPD-6 isolated from Petroleum Oil Sludge, International Conference on ENvironmentally Sustainable URban Ecosystems (ENSURE 2012), organized by Indian Institute of Technology Guwahati, Assam, India.

3.   Chowdhary, N., Dhar, S., Samanta, A. K., Chaudhuri, S., Dutta, D., 3 – 6 November, 2011. Screening Of Parameters (Temperature And Nitrogen Source) To Improve Pigment Yield, International Conference on Microbial Biotechnology for Sustainable Development, organized by Punjab University, Chandigarh, India.

4.   Das, R., Sar, P., Kazy, S. K., 17 – 19 February, 2011. Assessment of genetic diversity and catabolic potentials of indigenous microorganisms in petroleum hydrocarbon contaminated sludge for their potential application in bioremediation, International Conference on Sustainable Water Resources Management and Climate Change Adaptation (SWRMCCA), organized by National Institute of Technology, Durgapur, West Bengal, India.

5.   Dey, P., Das R., Kazy, S. K., 24 – 26 February, 2012. Benzene Utilization as a Sole Source of Carbon in the Minimal Medium by *Aerococcus* sp. isolated from Petroleum Hydrocarbon Contaminated Sludge, International Conference on ENvironmentally Sustainable URban Ecosystems (ENSURE 2012), organized by Indian Institute of Technology Guwahati, Assam, India.

6.   Dhal, P. K., Kazy, S. K., Sar, P., 26 – 30 June, 2011. Microbial diversity and bacterial community structure in highly contaminated mine tailings and other wastes from uranium mines at Jharkhand, India, 4th Congress of European Microbiologists, Geneva, Switzerland.

7.   Goswami, G., Chakraborty, S., Chaudhuri, S., Dutta, D., 6 – 10 September, 2011. Degradation Kinetics of Canthaxanthin Pigment produced by *Dietzia maris* NIT-D, XIIIth International Congress of Bacteriology and Applied Microbiology, organized by International Union of Microbiological Societies (IUMS), Sapporo, Japan.

8.   Gupta, A., Ganguly, A., Dey, A. Chatterjee, P.K., 24 – 26 February, 2012. Isolation and screening of fungal isolates from the local environment for the hydrolysis of water Hyacinth, International Conference on ENvironmentally Sustainable URban Ecosystems (ENSURE 2012), organized by Indian Institute of Technology Guwahati, Assam, India.

9.   Gupta, A., Ganguly, A., Dey, A., Chatterjee, P.K., Das, S., Bhattacharya A., Chowdhury, S., 9 – 10 January, 2012. Isolation and screening of fungal isolates from the local environment for the hydrolysis of water Hyacinth, International conference on Biotechnology and Food Technology, organized by Annamalai University, India.

10. Kazy, S. K., Das, R., Sar, P., 26 – 30 June, 2011. Genetic diversity of indigenous micro-organisms in petroleum hydrocarbon containing sludge, 4th Congress of European Microbiologists, Geneva, Switzerland,

11. Mondal, S., Mondal, A., Bardhan, R., Mukherjee, S., Dey, A., Mukhopadhyay, S. S., Mondal, B., 30 September – 2 October, 2011. Hydroxyapatite biomaterial- Preparation, Characterization and biocompatibility evaluation for artificial implant, International Conference on Tissue Engineering & Regenerative Medicine, organized by NIT Rourkela, India, pp. 78-79.

12. Mukherjee, S., Mondal, S., Bandopadhyay, B., Bardhan, R., Dey, A., Mondal, B., 3 – 7 January, 2012. Polyphenol Oxidase from Potato (*Solanum tuberosum* L.) peel: Isolation, purification and characterization, 99th Indian Science Congress Association, organized by KIIT University, Bhubaneswar, India, pp. 157-158.

13. Mukherjee, S., Mondal, S., Bardhan, R., Dey, A., Mondal, B., 30 September – 2 October, 2011. Nanostructured Biomaterials in Tissue Engineering: A New era of Biomedical Engineering Research, International conference on Tissue Engineering & Regenerative Medicine, NIT Rourkela, India, pp. 70.

14. Oberoi, A. S., Das, R., Sar, P., Kazy, S. K., 17 – 19 February, 2011. Naphthalene Biodegradation by an *Aerococcus sp.* isolated from Petroleum Hydrocarbon Contaminated Sludge, International Conference on Sustainable Water Resources Management and Climate Change Adaptation (SWRMCCA), organized by National Institute of Technology, Durgapur, West Bengal, India.

15. Pal, S. S., Behera, M., Dhali, D., Dasgupta, D., 27 – 29 December, 2011. The role of the bacterial isolates pure culture from paper and pulp industrial effluents in *o-* cresol and waste degradation, 64th Annual Session of the Indian Institute of Chemical Engineers (CHEMCON), Bangalore, India.

16. Paul, D., Islam, E., Kazy, S. K., Sar, P., 24 – 27 January, 2011. Metagenomic analysis of structure and diversity of microbial communities in arsenic contaminated ground water samples, International conference on microbes in waste water and waste water treatment, bioremediation and energy production, organized by Birla Institute of Technology and Science, Goa, India.

17. Paul, D., Kazy, S. K., Sar, P., 6 – 9 February, 2011. Characterization of arsenic contaminated ground water microbial diversity from West Bengal: a molecular approach to explore microbial role in arsenic transformation, International Conference on Biotechnology for Better Tomorrow, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (Osmanabad sub-campus), India.

18. Mondal, S., Bardhan, R., Mukherjee, S., Dey, A., Mukhopadhyay, S. S., Mondal, B., 3 – 7 January, 2012. Hydroxyapatite biomaterial: synthesis characterization and biotechnological application, 99th Indian Science Congress Association, KIIT University, Bhubaneswar, India, pp. 138.

19. Samanta, A. K., Chaudhuri, S., Dutta, D., 4 – 5 February, 2012. Study of Nutritional and Growth Characteristics of a Pigment Producing Bacteria isolated from soil, Frontiers in Modern Biology, organized by Department of Biological Sciences, IISER, Kolkata, India.

20. Sarkar, A., Kazy, S. K., Sar, P., February 17 – 19, 2011. Geomicrobiology of arsenic release in subsurface ground water: A molecular microbiology approach International Conference on Sustainable Water Resources Management and Climate Change Adaptation (SWRMCCA), organized by National Institute of Technology, Durgapur, West Bengal, India.

Department of Chemical Engineering

1. Dey, P., Pal, P. December, 2011. Response surface optimization of major growth factors with temperature for fermentative Lactic acids production by Lacto bacillus delbrueckii (NCIM-2025), Chemical Engineering Congress, Bangalore, paper 802.

2. Dutta, S., Chatterjee, S., 5 – 7 August, 2011. Response Surface Modeling and Optimization of Recovery of Dye from Spent Adsorbent Prepared from *Parthenium hysterophorous* and Testing of its Reusability, Second International Conference on Recycling and Reuse of Materials (ICRM – 2011), organized by Mahatma Gandhi University, Kottayam, Kerala (India).

3. Dutta, S., Mukhopadhyay, D., Sarkar, J. P., Patra, R., Halder, N., 11-14 March, 2012. Effect of Plastic on Biodegradation of Municipal Solid Waste, The Twenty-Seventh International Conference on Solid Waste Technology and Management, organized by Widener University, Philadelphia, PA (USA).

4. Krishnaraj, N., Saravanon, C., Pal, P., December, 2011. Efficacy of Pichia stipites based on batch fermentation on the yield of Bioethanol from mixed substrates, International Conference on Yeast Biology, IIT Bombay.

5. Krishnaraj, N., Sarvanan, S., Pal, P. September, 2011. A Study on biosynthesis of Indole acetic acid and its effects on Abelmoshus esculentus (L) using computational and biochemical approach, 10th National Conference on Harnessing the power of microbesfor better food, agro-industry and environment, Karpagam University, Coimbatore, Tamil Nadu.

6. Kumar, R., Pal, P., December, 2011. Complete Treatment of coke wastewater by nanofiltration membrane-integrated hybrids system, Published in the proceedings of the Chemical Engineering Congress, Bangalore, Chemical Engineering Congress, Paper-542.

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Depatment of Geology

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Library

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Department of Management Studies

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42. Usha, K., Mondal, B., Kumbhakar, P., 09-11 January, 2012. Sol Gel Derived Nanocrystalline TiO_2 Electrodes From Modified Precursor For Dye Sensitized Solar Cell Application, 2nd Molecular Materials Meeting (M3), an International Conference on Frontiers in Materials Science, Chemistry, & Physics, Biopolis, Singapore.

Annexure - 11.4(e) Visits abroad during 2011-12

Department of Chemical Engineering

Name	Name of the Programme	Organized by	D1ate of the programme
Dutta, S.	The Twenty-Seventh International Conference on Solid Waste Technology and Philadelphia, PA, USA Management,	Widener University, USA	March 11-14, 2012
Narayanan C.M.	International Conference on Solid Waste Technology and Management, Philadelphia, USA	Widener University, USA	March 27 – 31, 2011
Narayanan C.M.	Asian Congress of Biotechnology, Shanghai, China	Asian Federation of Biotechnology	May 11 – 15, 2011
Pal, P.	International Workshop on Water Resource Management	Lappeenranta University of Technology, Finland	10-16 April, 2011
Pal, P.	International Conference on Chemical, Ecology & Environment	Planetary Scientific .Research Centre, Bangkok, Thailand	March 17-18, 2012

Department of Chemistry

Name	Name of the Programme	Organized by	Date of the programme
Moi S.C.	Collaborative research with Vienna University of Technology, Vienna, Austria	NIT, Durgapur, PDA	May 23 – June 24, 2011

Department of Computer Applications

Name	Name of the Programme	Organized by	Date of the programme
Choudhury P.	International Conference on Communication and Broadband Networking (ICCBN 2011**)** , Kuala Lumpur	ICCBN 2011	June 17th – 19th, 2011
Choudhury P.	the 2011 International Conference on Power and Energy Engineering (ICPEE 2011), Bangkok	ICPEE 2011	July 29-31, 2011
Das S.	ICICN 2012, Singapore	IACSIT	February 26-28, 2012
Sarkar A.	11th International Conference of Software Engineering Research and Practice (SERP 11) Las Vegas, USA	WORLDCOMP	July 18, 2011 to July 21, 2011
Sharma A.	International Conference on Selected Topics in Mobile & Wireless Networking, Shanghai, China	iCOST, 2011	October 10-12, 2011

Department of Electrical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Acharjee P.	International Conference on System Science and Engineering (ICSSE) Conference	Macau University collaboration with IEEE	June 8-10, 2011
Banerjee S	International Conference on 20th IEEE International Symposium on Industrial Electronics	IEEE Poland and Gdansk University of Technology,Gdansk, Poland	27-30 June, 2011
Bhowmik P.S.	ICECECE-2012, Pennang Malaysia	WASET	February 19-21, 2012
Bhowmik P.S	ICECECE-2012, Phuket Thailand	WASET	March 12-13, 2012
Ghoshal S.P.	Int. IEEE Conf. SDE-2011, Paris, France.	IEEE France Section	11-15 April, 2011.
Koley C.	ICECECE-2012, Pennang Malaysia	WASET	February 19-21, 2012
Koley C.	ICECECE-2012, Phuket Thailand	WASET	March 12-13, 2012
Mahato S. N.	International Conference on Scientific Computing (CSC-2011), WORLDCOMP 2011, Las Vegas, USA.	WORLDCOMP 2011, Las Vegas, USA	18-21 July, 2011
Roy N. K.	International Symposium of High Voltage (ISH) Engineering at Hannover, Germany.	ISH, Foundation	August 22-26, 2011

Department of Electronics & Communication Engineering

Name	Name of the Programme	Organized by	Date of the programme
Chandra A.	Visiting Professor	Asian Institute of Technology, Bangkok.	August 2011 to January 2012

Department of Humanities & Social Sciences

Name	Name of the Programme	Organized by	Date of the programme
Rai S.K.	2011 AEEEI Conference	University of La Laguna Tenerife, Spain	November 23-26 2011

Department of Mathematics

Name	Name of the Programme	Organized by	Date of the programme
Bagchi S.	ICHCC-ICTMF-2011	IITA Springer, Singapore	May 05-06,2011
De L.K.	ICHCC-ICTMF-2011	IITA Springer, Singapore	May 05-06,2011
Pal A.	ICHCC-ICTMF-2011	IITA Springer, Singapore	May 05-06,2011

Pal A.	ICCBN -2011	IACSIT, Malaysia	June 17-19, 2011
Pal A.	ICPEE-2011	International Conference on Power and Energy Engineering , Bangkok, Thailand	July 29-31, 2011
Pal A.	Workshop on Graph Theory	Rajshahi University, Bangladesh	May18-20, 2011

Department of Management Studies

Name	Name of the Programme	Organized by	Date of the programme
Bandyopadhyay G.	Business and Applied Sciences Academy of North America (BAASANA)-International Conference	The Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA	June 16-19, 2011
De A.	Academy of Business Research Winter Conference at Las Vegas, USA	Academy of Business Research, USA	November 14-16, 2011
De A.	International Conference of Business and Applied Sciences Academy of North America (BAASANA)-International Conference.	The Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA	June 16-19, 2011
Dutta A.	BAI(2011)	International Conference in Business and Information, Bangkok,Thailand	4to 6th July 2011
Dutta A.	Business and Applied Sciences Academy of North America (BAASANA)-International Conference	The Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA	June 16-19, 2011
Mandal K.	Business and Applied Sciences Academy of North America (BAASANA)-International Conference.	The Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA	June 16-19, 2011
Roy, M.	ICHEG-2012	Bangkok, Thailand	March 17-18, 2012
Roy, M.	International Workshop	LUT, Finland	April 10-16, 2011

Department of Physics

Name	Name of the Programme	Organized by	Date of the programme
Kumbhakar P.	International Conference on Materials for Advanced Technologies (ICMAT 2011	Materials Research Society (MRS) Singapore & NUS, Singapore	June 26-July 1, 2011
Kumbhakar P.	International Symposium of High Voltage Engineering-2011 (ISH-2011)	Leibniz University, Hannover, Germany	August 22- 26, 2011

Annexure - 11.4 (f) Ph.D. degree awarded during 2011-12

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Production of Lactic Acid in Membrane Integrated Hybrid Bioreactor System	Sikder Jaya	Pal, P. Sarkar, J.P.

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
Knowledge Management Applications In E - Government Services	Chakraborty Baisakhi	Ghosh D.
Text Steganography through Different Indian Languages	Changder Suvamoy	Ghosh D.
Analysis and Dimenssioning of Multiservice Cellular Wireless Networks for Achieving Higher Performance	Samanta Raj Kumar	Sanyal G.

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
Some Studies on DC Attraction Type Levitation and Associated Control Systems	Bhaduri R.	Banerjeee S.
Application of Evolutionary Optimization for Economic Load Dispatch and Optimal Power Flow Problems	Roy P.K.	Ghoshal S.P. & Thakur S.S.

Department of Electronics & Communication Engineering

Topic	Investigator	Supervisor(s)
Some Studies on Synthesis of Linear and Circular Array Antennas using Evolutionary Algorithms	Basu Banani	Mahanti G.K.
Synthesis of Thinned Array Antenna using Soft Computing Techniques	Pathak Narendra Nath	Mahanti G.K.
Cognitive Radio CDMA Networking with Efficient Radio Resource Management	Roy Sanjay Dhar	Kundu S.
Predictive Embedded System in Safety Critical Application	Roychowdhury Joydeb	Bhattacharjee A. K.

Department of Humanities & Social Sciences

Topic	Investigator	Supervisor(s)
Problems and Prospects of Micro-finance in Developing Rural Entrepreneurship: An Experience of Birbhum District	Biswas Tiyas	Sengupta, P. P.
A new perspective on financial ration analysis as a tool of financial forecasting as well as present and future problem diagnosing, business problem solving and decision making	De Anupam	Chakrabarti B.N. & Bandyopadhyay G.
Efficiency and Productivity Analysis of Indian Insurers in Pos-Reform Era	Dutta Anirban	Sengupta, P. P.
Problems and Prospects of Indian Thermal Power Sector in the Context of Depleting Stock of Coal and Global Environmental Crisis	Ghosh Sukanya	Sengupta P. P.

Department of Mathematics

Topic	Investigator	Supervisor(s)
Portfolio Optimization in Uncertain Environments	Bhattacharyya R.	Kar S. & DuttaMajumder D.
Modeling of Some Problems on Production Planning and Inventory Control:The Soft Computing Approach	Das Debasis	Kar S. & Roy A.
A Study on Different Aspects of Assignment Problems Under Fuzzy and Intuitionistic Fuzzy Environment.	Mukherjee Sathi	Basu K.

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Application of Wave Force towards the Development of a New Wave Energy Converter	Debroy Pradip	Ghosh S.
Motion Dynamics of serpentine mobile robot	Maity Atanu	Ghosh S. Majumder S. (CMERI)
Optimization of machining fixture layout using finite element method	Vishnupriyan S	Ramachandran, K.P. (CCE, Oman) Majumder M. C.

Department of Metallurgical & Materials Engineering

Topic	Investigator	Supervisor(s)
Studies on structure, transformation, properties and wear characteristics of Austempered Ductile Iron alloys with copper and manganese	Dasgupta Ranjan Kumar	Mondal D. K. Ganguli A. C. (BCET)
Studies on Influence of Alloy Microstructure and Superficial Coating of Reactive Oxides on the High Temperature Corrosion Behaviour of 2.25 Cr-1Mo and 9Cr-1Mo Steels in $SO_2 +O_2$ atmospheres.	Ghosh Debashis	Mitra S.K.

Department of Physics

Topic	Investigator	Supervisor(s)
Preparation, Characterization and electrical transport properties Of polymer carbon nanotubes composites	Chakraborty G.	Meikap A K.
The Effect of the Dopant of the Electron Transport Properties in Conducting Polymers at Ambient and Cryogenic Temperatures	Ghosh P.	Meikap A.K.

Annexure - 11.4(g) Ongoing Doctoral Programme

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Production of biopesticide from Mucuna pruriens	Acharya Bidyut	Aikat K.
Studies on Chromium removal from Tannery Waste Water using Nano Filtration Technique	Bajpai Shailendra Kumar	Dey, A., Jha, M.K. (NIT Jalandhar) Gupta, S.K. (IIT D)
Studies on the Biochemical Characterization and Optimization of Media Composition for Phenol Degradation by Microbes from Industrial Waste Water	Basak Bikram	Dey A.
Studies on Genotoxicity of Industrial Effluents and Its Treatment Strategies for Remedy	Behera Minati	Dasgupta Mandal D.
Fermentative Production of Protease Enzyme	Bhunia Biswanath	Dey A.
Investigation of genetic and molecular functions of ZBF1/MYC2 with other regulatory protein of light signaling in Arabidopsis seedling development	Chakraborty Moumita	Chattopadhyay S.
Treatiblility Studies of Dyes by Low cost adsorbent	Chakraborty Sagnik	Saha P.
Exploration and Exploitation of Microbial Catabolic Potentials for the Bioremediation Petroleum Hydrocarbons	Das Ranjit	Kazy S. K.
Studies on Bioconversion of Lignocellulosic Materials to Ethanol	Ganguly Amit	Dey A. Chatterjee P.K. (CMERI Durgapur)
Optimal Production Strategies for Microbial Pigments	Goswami Gargi	Dutta D. Chaudhuri S.
Molecular and Functional analyses of ZBF1/MYC2, a Z-box interacting bHLH transcription factor, in tomato (Lycopersicon esculentum Mill.)	Gupta Nisha	Chattopoadhyay S.
Bioprospecting of Extracellular Enzymes from Xenorhabdus sps	Kumar Pranaw	Dutta D. Lata, Chaudhuri S.
Studies on the processing of Hydroxyapatite and Collagen Bio-materials and their Application in Biotechnology	Mandal Sudit	Dey A. Mukherjee S. Mandal B.M. (CMERI Durgapur)
Genetic and Molecular Interactions of ZBF1/MYC2 and ZBF2/GBF1 in Arabidopsis Seedling Development	Maurya Jay Prakash	Chattopadhyay S.
Kinetic Studies on the Enzymatic Removal of Phenolic contaminants from industrial wastewater using Polyphenol oxidase enzyme	Mukherjee Suprabhat	Dey A. Mandal B.M. (CMERI Durgapur)
A study on Candida infection in HIV/AIDS patients in a tertiary care hospital in Kolkata	Mukherjee Mita	Dutta D., Basak S. Guha S. K
Studies on Structure-based Anti-Leismanial and Anti-Cancer Drug Design and Development of Delivery System	Munshi Sudip	Dasgupta Mandal D. Patil P.
Functional analysis of putative GPCRs in rice blast fungus	Nazmiara Sabnam	Roy Barman S.
Studies on the Etiopathogenesis of Gall Bladder Carcinoma in Eastern India	Pramanik Vishmadeb	Kazy S. K. Kar M. Sarkar B. N.
Production of Bio-Active Compounds from Marine Bacteria	Prasad Shiv Shankar	Aikat K.
Characterization and optimization of pigment production from an isolated strain	Samanta Amit	Dutta D. Chaudhuri S.
Biofuel Production using Cellulosic and Hemicellulosic Biomass	Sarkar Nivedita	Aikat K.

Topic	Investigator	Supervisor(s)
Investigation of functional interrelations of ZBF3/CAM7 with COP1 in Arabidopsis seedling development	Senapati Dhirodatta	Chattopoadhyay S.
Biosorption of heavy metals using *Chlorella minutissma*	Singh Shailendra Kumar	Dey A. Jha M.K. Bansal A. (NIT Jalandhar)
Genetic Regulation of Systemic Acquired Resistance in Arabidopsis thaliana	Singh Vijayata	Chattopadhyay S. Nandi A. (SLS,JNU)
Extraction and Application of Natural Dyes	Sinha Keka	Saha P. Datta S.
Genotypic and Functional Characterization of Wheat Associated Microflora from Different Agro-Ecological Zones	Verma Priyanka	Kazy S. K. Suman A.
Sequence Alignment and Phylogenetic Analysis of Human Herpes Virus using Molecular Evolution Genetic Analysis (MEGA).	Vipin Kumar	Dey A. Singh A. (BCET, Gurdaspur)

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Modelling and experimental investigations on thermochemical conversion of biomass and its blends	Banerjee Anupam	Sadhukhan A. K. Gupta P.
Understanding and Modelling the Dynamics of Coke-Oven Wastewater	Bera Dilip	Pal P.
Technology Development of Liquid Phase Adsorption of Mercury Using Low-cost Adsorbent for Better Management of Industrial Wastes	Bhattacharyya Aparupa	Dutta S. Basu S. (HITK)
Study on Methane Enrichment in Biogas by Pressure Swing Adsorption Technique	Chakrabarty Prasenjit	Halder G. N.
Techno-Economic Feasibility Study in Implementing Arsenic Abatement Technology	Chakraborty Sankha	Pal, P. Roy, M.
Enzymatic removal of heavy metals from waste water: Experiment and Modeling	Chatterjee Soumasree	Dutta S. Basu S. (HITK)
Studies on the Removal of Pollutants from Treated Municipal Waste Water by Photo catalytic Oxidation Process and Conventional Method	Cheriyan Anna Jesil	Sarkar J. P.
Studies on Hot Air Drying of Food Grains - Intermittent Drying and Its Effect on Quality and Energy Consumption	Choudhury Biplab	Sarkar J. P. Chatterjee P.K.
Process Intensification in Lactic acid manufacture through membrane-integrated hybrid reactor system	Dey P.	Pal P.
Analysis and Energy Optimization of Natural Circulation Flow	Goswami Nababithi	Paruya S.
Analysis of the nonlinear Instabilities in the Natural Circulation Boiling Flow	Karmakar Arnab	Paruya, S.
Design, Optimisation, and Analysis of Power generation by lignocellulosic based microbial fuel cells	Krishnaraj, N.	Pal, P. Saravanan, C. Berchmans, S.
A critical study on Natural refrigerants towards the Replacement of CFCs	Kumar Anupam	Halder G. N.
Biological and Physico-chemical Treatment of Coke-oven wastewater	Kumar Ramesh	Pal P.
Preparation and Characterization of natural degradable Nano and micro capsules using Layer-by-Layer technique	M. Geetha Devi	Dutta S. Feroz S. Al-Hinai A.
Studies on the Kinetics of Ethanol Conversion from Parthenium Hysterophorus	Majumdar Swati (Ghosh)	Haldar S. Chatterjee P.K. (CMERI)

Topic	Investigator	Supervisor(s)
Preliminary Processing of Municipal Solid Waste and Modelling of Landfills	Mukhopadhyay Debabrata	Sarkar J. P. Dutta S.
Mass Transfer in Convergent Pneumatic Dryer	Prasad Sunil Kumar	Sarkar J. P. Paruya S.
Heat and Mass Transfer Studies on Vertical Pneumatic Conveying	R. Anandhakrishnan	Sarkar J. P.
Studies on Methane Potential from Anaerobic Digestion of Mixed Substrates of Vegetable and Fruit Wastes together with Oil and Fatty Residues	Seema S.	Narayanan C.M.

Department of Chemistry

Topic	Investigator	Supervisor(s)
Molecular Modeling of IMPDH (Inosine Monophosphate Dehydrogenase) and the Binding Studies of Some Modified IMPDH–Inhibitors	Bairagya Hridoy Ranjan	Mukhopadhyay B. P.
Water Molecular Dynamics Study of Human Ransthyretin (TTR) and its Mutated Forms	Banerjee Avik	Mukhopadhyay B. P.
Corrosion Inhibition of Brass and Aluminium Alloy In Chloride Solution	Banerjee Ranu	Nandi M.M.
A Study on the Water Molecular Dynamics in Some Homologous Matrix Metallo Proteinases (Mmps) and their Inhibitors – Bonded Complexes by Modelling Methods	Chakrabarti Bornali	Mukhopadhyay B. P.
Evaluation of Arsenic Contamination in Groundwater, Soil, Vegetation through Food Chain and its Impact on the Environment	Chandra Sukanya	Saha R.N., Pal P.
Stabilization of Various Oxidation States of Ni [Ni(I), Ni(II), Ni(III) and Ni(IV)] With Designed Multidentate Ligands : Synthesis of Ni Complexes Relevant To The Ni-site of Ni-Fe Hydrogenase Enzyme	Chatterjee Sudip	Patra A. K.
Spatial and Temporal Variations of Ambient Air Quality in Burdwan Town, West Bengal	Chattopadhyay Subrata (Regd. with B.U.)	Saha R.N., Gupta S. (B.U.)
Effect of some heterocyclic bases on the corrosion inhibition of mild steel in acid medium	Dutta Alokdut	Sukul D.
Kinetics and Mechanism of Substitution on D^8 Metal Ion System by Bio-Active Ligands	Ghosh Goutam Kr.	Moi S. C. Patra A. K.
Development of Natural Fibre Reinforced Polyester Composite Material	Hazarika Sonalee Borah	Panja S. S. Choudhury S.
Synthesis of Metal and Metal Oxide Xerogel and their Film by Sol-Gel Method and their Characterization	Layek Manas	Maji M.
Synthesis of Titania nanoparticles and Rheological Study for Different Applications	Mahata Shrabani	Nandi M. M. Mondal B. N.(CMERI)
Application of Photo-Fenton's Oxidation and Biological Oxidation for the Degradation of Some Selected Pollutants Present in Petro-Chemical and Coke-Oven Wastewater	Mallik Tirthankar (Regd. with B.U.)	Saha R. N.
Kinetic and mechanistic studies of substitution on square planar d^8 metal complexes with special emphasis on sulphur containing bioactive ligands	Misra Koyel	Moi S. C.
Effect of exogenous phospholipids on sperm plasma membrane structure and function in relation with cryopreservation	Mondal Rajesh	Chakrabarty J. Maji M.
A Study on the Invariant Water Molecular Dynamics in Plant Cysteine Protease and their Complexes By Modelling Methods	Nandi Tapas Kumar	Mukhopadhyay B. P.

Topic	Investigator	Supervisor(s)
Environmental Impact of Effluent Generating from Sponge-Iron Industries on Surrounding Water, Soil and Vegetation.	Nayek Sumanta (Regd. with B.U.)	Saha R.N. Gupta S. (B.U.)
Study of some bioplymners as corrosion inhibitor of mild steel in acid medium	Pal Aparesh	Sukul D.
Structure, Spectroscopic Properties and Reactivity Studies of Cu(II) Complexes With Supporting Tridentate Schiff base or Amide Ligands	Roy Suprakash	Patra A. K.
Bio-molecular interaction on palladium and platinum (II) complexes in aqueous medium by sulphur containing ligands: their kinetics and mechanism	Samanta Avradeep	Moi S. C.
Development of a Suitable Treatment Scheme of Combined Effluent Generating from Iron & Steel, Ferro Alloy, Thermal Power and Chemical Industries Located in Durgapur Industrial Area, W.B.	Satpati Satarupa (Regd. with B.U.)	Saha R.N. Gupta S. (B.U.)
Structure and Interaction Studies of some Nucleotide Molecules with the different Ligands by X - ray Crystallographic Methods	Sengupta Dhruba Kumar	Mukhopadhyay B. P. Das S. B.
An Investigation on Composition of Sea Water and its Corrosion Effects on Metals	Shah Jahan (Oman)	Das S. B. Saha R.N. Raut N. B. (C.C.E., Oman)
Development of New Molecular Device for Sensing Physiologically Important Metal Ions	Sikdar Anindita	Panja S.S.
Immobilization of Cholesterol Esterase and Cholesterol Oxidase on Conducting Polymers for Application to Cholesterol Biosensor	Singh Suman	Maji M. Chandra Prakash (CMERI)

Department of Civil Engineering

Topic	Investigator	Supervisor(s)
Use of shape memory alloy for making of smart concrete structure to withstand time dependent effects in prescribed concrete bridges	Debbarma S.	Saha S.
Shape Memory Alloy as Retrofitting of Brick Masonry	Pal N.	Nanda R.P.

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
Active Stereo Vision from Uncalibrated Camera Images	Bhattacharya Jhilik	Sanyal G.
Study and Analysis of some aspects of f Stagenography Techniques for Information Hiding	Bhattacharya Souvik	Sanyal G.
Power Efficient Architechtural Designs	Chandrakar Khusbu	Roy S.
Efficient Intrusion Detection & Incident Response: A FRAMEWORK FOR THE LINUX KERNEL	Das. Suvrojit	Ghosh, D.
Algorithmic Mechanism Design and its Application in Network Economics	Mukherjee Sajal	Ghosh, D.
New SAT based Solutions in VLSI Physical Design Automation	Mukherjee Shyamapada	Roy S.
Optical Networks	Pradhan Ashok Kr.	De T.
High Performance Computing	Sinha Debmalya	Sanyal G.

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
Some Design Aspects for Single and Multi-Magnet Based Electromagnetic Levitation System	Biswas P.	Banerjee S. Sarkar P.
Periodic Compensation of Continuous-time Plants: Practical Implementation	Chakraborty A.	Dey J.
Unification of Field Forces and to Explore Some of the Unanswered Phenomena in Nature and Science	Chanda G.	Ghoshal S.P.
Application of Evolutionary to Some Specific Power System Problems	Chatterjee Apurba	Ghoshal S.P. Mukherjee V.
Development of Gas Sensors for Online Monitoring of Dissolved Gas in Transformers	Chatterjee Anjali	Roy N. K. Kumbhakar P.
Neural Network Based Sensorless Maximum Wind Energy Capture using DFIG	Kaur K.	Mahato S. N. Saha T. K. Banerjee S.
Distribution Systems, optimal placement of DGs and Capacitors , Reliability	Khan N.A.	Ghosh S. Ghoshal S. P.
State estimation in electric power systems	Mallick S.	Thakur S.S., Acharjee P. Ghoshal S. P.
Optimization in DSP Filter Design	Mandal S.	Ghoshal S.P., Kar R. Mandal D.
Optimal Price Forecasting in Restructured Power Systems using Evolutionary Techniques	Pany P.K.	Ghoshal S.P.
Power System Studies using Load Flow and Static State Estimation	Rajan D.V.	Thakur S.S.
Controller Design for Maglev Systems	Sarkar M.K.	Banerjee S. Ghoshal S.P Saha T.K

Department of Electronics & Communication Engineering

Topic	Investigator	Supervisor(s)
MEMS based microphone	Behera, S. K.	Mahapatra R.
Effect of Electric Field in Ferroelectrics and discrete Breathers in optical communication	Biswas Arindam	Mandal D. Bandyopadhyay A. K.
Energy Efficient CDMA Wireless Sensor Networks	Datta Uma	Kundu S.
Studies on Co-operative Communication Networks	Dey Chanchal Kr.	Kundu S.
On certain aspects of underground digital communication systems: Analysis and modelling	Giri S.	Chandra A. Bose, C.
Performance Parameters' estimation of on-chip VLSI interconnections	Maheshwari Vikas	Kar R. Mandal D.
Some Studies on Synthesis of Time-Modulated Array Antenna Using Evolutionary Algorithms	Mandal Sujit K	Mahanti G. K. Ghatak R.
Design of digital filter using evolutionary optimization algorithms	Mondal Sangeeta	Kar R. Mandal D. Ghoshal S. P.
Array Failure Correction using Evolutionary Algorithms	Muralidharan R	Mahanti G.K.
Energy level Performance of Wireless Sensor Networks with Fading and Error Control	Nandi Arnab	Kundu S.
An Adaptive approach to optimized Steganographic Data Hiding based innocuous Communication	Rajkumar P.	Kar R. Dharmasa (CCE, Oman)

Topic	Investigator	Supervisor(s)
Optimal Design of Digital IIR Filters using Evolutionary Optimization Techniques	Saha Suman Kumar	Kar R. Mandal D. Ghoshal S. P.
3D Hybrid Micro-chip for osteoblast characterization	Sarkar Swarup	Mahapatra R.
Studies on Nanostructure hybrid solar cell	Sinha Madhumita	Mahapatra R. Ghosh R.
Studies on Performance of Cognitive Radio Networks with Spectrum Sensing	Srinivas Nallagonda	Kundu S. Dhar Roy S.
Some studies on optimum design of Electromagnetic shielding	Tewary J.	Mahanti G.K.
Design of Low Power Area Efficient Switched Capacitor Circuits in CMOS Technology	Todani R.	Mal A. K.

Department of Geology

Topic	Investigator	Supervisor(s)
Groundwater occurrence and quality assessment in north-western and north-eastern part of Bankura district, West Bengal	Bajpayee Swastika	Adhikari K. Chatterjee P.K. Ruj B.
Assessment of Groundwater Condition and Quality in Areas North of Durgapur in the District of Burdwan, West Bengal	Chakraborty Barnali	Gangopadhyay A. Adhikari K.
Studies on the Environmental Vis-A-Vis Socio-Economic impact of Vermicomposting in Organic Waste Management	Karmakar Sruti	Gangopadhyay A. Bramhachari K.
Seismic Diffraction Tomography and Modelling for Subsurface Imaging	Mahapatra Mahasweta	Gangopadhyay A. Mahapatra S. Kayal J.R.
Geo-Environmental Impact of Coal Mining in Some Parts of Raniganj-Asansol Coalfields, West Bengal	Sadhu Koushik	Adhikari K. Gangopadhyay A.
The Tectonics of Eastern Segment of Delhi Fold Belt, Southeast of Beawar, Rajasthan.	Saha Pinaki	Gangopadhyay A. Mukhopadhyay D.

Department of Humanities and Social Sciences

Topic	Investigator	Supervisor(s)
Narrative Technique in the novels of Garcia Marquez	Banerjee Sriman	Rai S.K.
Micro-Pension Plans : Indian Perspective	Bhattacharya Prakash	Chakrabarti B.N.
Sashi Deshpande's Novels : A Feminist with a difference	Chakraborty Taniya	Banerjee J.
An Exploratory Study in to the Effect of Level and Function on Managerial Communication Behaviour in a Public Sector Integrated Steel Plant	Chandra Mouli C.	Sengupta P.P.
Crisis of Cultural Identity in the Novels of Amitav Ghosh	Chatterjee Rajarshi	Banerjee J.
Feminist Approaches— Indian and European— to Classical Women Characters, with Special Reference to Sita, Draupadi, Sakuntala, Clytemnestra, Lady Macbeth, Medea, and Antigone	Das Saptorshi	Modak A.
Feminist or otherwise : A Study in the Poetry of Kamala Das	Das Soma	Banerjee J.

Topic	Investigator	Supervisor(s)
Development of Socioeconomic Status, Livelihood Pattern and Empowerment of Rural Poor, Specially Rural Poor Women through Self Help Groups, Micro Credit and Livelihood Promotion in Bankura and East Medinipur District of West Bengal, India	De Debasis	Sengupta P.P.
Neo-Colonial Undertones in Arundhuti Roy and Jhumpa Lahiri	Guha Roy Sandip	Banerjee J.
Postcolonial studies of Salman Rushdie's Select Novels	Gupta Punyajit	Rai S.K.
Postmodern Elements in T. S. Eliot's Poetry	Mandal Annesha	Modak A.
Tagore in English Translation: A postcolonial Perspective	Misra Debi Prasad	Modak A.
Travel Writings of D. H. Lawrence: the Literary Dimensions	Mukherjee Abhik	Modak A.
Adaptation to Change in Steel Industry— A Managerial Approach in Sail	Sengupta Subhendu	Chakrabarti B.
A Non-linear Approach to Richardson's Model of India-Pakistan Arms Race	Shah Rupali Subhashchandra	Sengupta P. P.

Department Of Management Studies

Topic	Investigator	Supervisor/S
Developing a Model for Better Utilization of Hospital Resources	Bandyopadhyay Soumendranath	Dutta A., Bandyopadhyay G. Sanyal G.
Extension of Service Quality Gap Model for Edu-Preneurs; A Study Based on WB	Banerjee Chandan Kr.	Mandal K.
Cross-Sectional Analysis of Share Buy Back on Companies' Performance and Investors' Wealth In Indian Context.	Bhattacherjee Biswanath	Dutta A.
Financial Management and Control towards Financial Sustainability of Urban Local Bodies in India with Special Reference to WB: Analysis and Improvement of Existing System with Quantitative Techniques	Bhattacharya Sidhakam	Bandyopadhyay G.
Application of Management Tool to Control Inherent Risk from Liquefied Petroleum Gas (LPG) & Developements of Maximum Credible Loss Model for Durgapur, WB	Chattterjee Saumya	Bandyopadhyay G.
Knowledge Management as a Source of Competitive Advantage in Indian Job Market	Chatterjee Tilak	Roy M.
In Search of Nature of Relationship Between Internal Marketing and Financial Performance of the Company: A study on Hotels , Hospitals and Banks operating in Kolkata	Chattopadhyay Rituparna	Mandal K.
Benefits & issues of coal mining on the socio economic environment in Asansol Raniganj coal field area with emphasis on formulating management strategies	Dan Surajit	Dutta A.
The impact of website formation on various facets of business – An empirical study	Dasgupta (Banerjee) Monami	Mandal K.
Study of Certain Aspects of Strategic Planning in IT Industry.	Dinkar	Bandyopadhyay G. Mukherjee R. (B.C.E.T.,Durgapur)
Towards Developing an Effective Strategy for Employee Retention in IT Organization	Dutta Monalisa	Dutta A.

Developing strategies and algorithm for multicasting over optical burst switched networks to enhance Economic value for end users through QOS policies	Datta Subhasis	Dutta A.
Information & Communication Technology and E-Business Support for Indian MSMES	Gayen Anupam	Roy M.
Forecasting using Optimization Techniques from the Perspective of Indian Financial Market	Ghosh Arijit (Regd. with J.U.)	Chaudhuri K. (J.U.) Bandyopadhyay G.
The Impact of Coal Mining Activities on the Environment and Socio-Economic Condition of Adjoining Human Population with Special Reference to Asansol- Ranigunj Area in West Bengal, India	Guha Debasish	Dutta A. Mondal S.
Study of Impact of Global Economy on Petrochemical Business in Asia	Khastagir D.	Roy M.
An Empirical Quest for Various Aspects of Brand Switching.	Maji Sukanta	Bandyopadhyay G. Mandal K.
The Influence of Corporate Culture on Organisational Commitment-Evidence from Selective Hospitality Industry In India	Mitra Manojit	Bandyopadhyay G.
Assessing service quality gap and customers satisfaction of commercial banks in India with special reference to the state of west Bengal	Mukhopadhyay Sumanta	Dutta A.
Study on Nature of Relationship Between Channel Power and Influence Strategy Visa-A-Vis Channel Management Practices Prevalent in India.	Roy Koushick	Mandal K.
Studies on Polluting Industries' Socio-Economic and Environmental Impact	Sarkar Sreemanta	Roy M.
The impact of integrated marketing communications on profit– A study of Indian firms	Siddhanta Somroop	Banerjee N.
Psychological contract and its relevance to Emloyment Relationship	Thomas Anitha	Dutta A.
Investigating the Financial Health of Indian Companies using Quantitative Techniques	Upadhyay Arun	Bandyopadhyay G.

Department of Mathematics

Topic	Investigator	Supervisor/S
Modelling of some decision making problem with uncertainties in optimization framework	Chatterjee Amitava	Kar S.
Effective Management of proposed Projects in Durgapur area using OR techniques and Project Management Tools	Chowdhury Angshuman	Sarkar (Mondal) S.
ImpactofE-Learning for Enhancement of Gross Enrollment (GER) of West Bengal in Comparison to Other States: A Statistical Performance Based Study	Das Anirban	Basu K.
Optimization in Steel Makes Parameters of Integrated Steel Plant with Special Reference to Durgapur Steal Plant in the Realm of Applied OR Tools and Techniques to Make Steel Making Globally Competitive in the Post Liberalization Indian Economy	Das Subhas K.	Sarkar(Mondal)S.
Some aspects on Corporate Social Responsibility (CSR) Modelling with Bureaucracy	Debnath Animesh	Kar S. Dey J.
Study of Some New Codes and their Supporting t-Designs	Ghosh Debashis	Dey L.K.

Topic	Investigator	Supervisor/S
Some Production Inventory Models in Uncertain Environment	Hazari Samar	Kar S., Dey J. Maity K.
Fuzzy Decision Making: Anapplication to Investment Analysis	Hossain Ahmed	Kar S. & Bhattachryay R.
Application of Multivariate Analysis on Environment to study the heavy metal toxicity in Grazing Animals.	Karmakar Partha	Sarkar (Mondal) S. Majumder D.
Portfolio Selection by using Fuzzy Expert System.	Mitra Thakur Gour Sundar	Sarkar (Mondal) S. Bhattacharyya R.
Analysis and Optimization of Coalmine Production and Operations Management System	Mondal Satya	Sarkar (Mondal) S.
Formulation of lower bounds for multiple covering codes and study of their corresponding designs	Mondal Saranan	Dey L. K.
Application of Operations Research in Industry and Management	Mukherjee Bishahari	Basu K.
Fuzzy Mathematics and its Applications in Society	Mukherjee Supratim	Kar S.
Studies on vibration stability on flexible structure	Nandi Prasanta	Kar S. Gorain G.
Reliability Modelling and Analysis of an Industrial System	Narayanan P.	PalA. RizwanS M.
A Critical Study to Analyze Charecterstics of Indian Educational, Tourism and Shopping Websites to Increase Effectiveness & to Achieve Better Market ability	Panigrahi Goutam	Basu K.
Conditional Covering Problems on Intersection Graphs	Rana Akul	Pal A. Pal M.
Mathematical Models of Some Decision Making Problems in Different Environments	Saha Anirban	Kar S. Maiti M.

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Investigation of geometry and size effects in micro-EDM	Barman Swapan	Puri A.B. Nagahanumaiah (CMERI)
Improvement in perfarmance of coal fired steam generation Technologyfor thermal power generation	Bhattacharya Chittatosh	Banerjee N. Sarkar H. (WBPCB)
An Investigation of Flow Characteristics within a Sinuous Duct	Biswas Arup Kumar	Mullick A.N. Majumder B. (JU)
Reliability Based Predictive Maintenance for Assessment of Effectiveness of Continuously Monitored Systems	Biswas Robin Kumar	Majumder M.C. Basu S.K. (Govt.College, Pune)
Numerical Simulation of Hydrodynamic flows over bluff obstacles	Chatterjee Kanchan	Hui N. B.
Studies on flow and performance characteristics through serpentine diffuser.	Das N.K.	Halder B. Ray P. Majumder B. (JU)
Modelling and Analysis of Machine Tool Dynamics for Prediction of Stability against Chatter using Bond Graph Technique	De Jagannath	Saha A.K. Banerjee N.
Development of Homogeneous Matrix Method based on Joint Motion for Kinematic Analysis and Dynamic Analysis of Multi-body Mechanisms	Mitra Ambuj Kumar	Mitra A.K. (Self)
Study of a Software servo controlled robotic manipulator with flexible joint.	Mukhopadhyay Sumit	Sengupta S.N. Majumder M.C.
Modelling, Simulation and an Empirical Investigation of Worker Assignment for Virtual Cellular Manufacturing	Murali RV	Puri A.B. Khalid F Al-Raheem (CCE, Oman)

Topic	Investigator	Supervisor(s)
Optimization of machining parameters in ECDM	Nandi D	Basak I
Fault Diagnosis Through Electrical Motor Current Signature Analysis	Roy Abhijit	Saha A.K.
Novel Synthesis of Cathode Materials for Lithium Rechargeable Batteries	Sen Prasanta Kumar	Halder B. Sivaprakash(CMERI)
Towards design of a reliable autonomous underwater vehicle (AUV).	Shome Sankar Nath	Ghosh S. Basu J. (CMERI)
Non-destructive Testing and Evaluation of Defects in Fiber-Metal Laminates using Infrared Thermography	Sundaravalli S.	Majumder M.C. Benny Joseph, ICEM,Omam

Department of Metallurgical & Materials Engineering

Topic	Investigator	Supervisor(s)
Studies on Status, constraints and Solution of coal based sponge iron Industries in India	Chakraborty R.	Mitra S.K.
Development and characterization of ceramic oxide dispersed Al 7075 alloy composite	Karunanithi R.	Bera S. Ghosh K.S.
Study on the Development of Nickel Free Wear Resistant Casting	Mandal S. S.	Mondal D.K.
Development of TiC reinforced aluminium based metal matrix composite with and without a second reinforcement	Mondal M. K.	Maity J. Biswas K.
Studies on High Temperature Degradation of Stainless Steel Weldments in Coke-oven Gas Atmosphere	Pramanik S.	Mitra S.K.
Characterisation of Aging and Retrogression and Reaging (RRA) and Stress Corrosion Cracking (SCC) Behaviour of Al-Zn-Mg- (Cu) Alloys.	Rout P. K.	Ghosh K. S. Ghosh M.M
Transient liquid phase diffusion bonding of aluminium based metal matrix composites	Roy P.	Pal T.K. Maity J.
Effect of cyclic heat treatment on microstructure and mechanical propertiesin various grades of plain carbon steels	Saha A.	Mondal D.K. Maity J.
Development of aluminium based metal matrix composite with hybrid	Show B. K.	Mondal D.K. Maity J.
Optimization of Parameters of Heat Treatment Cycles of MIM Process to Reduce the Total Time of Manufacturing of NET Shape Steel Components by MIM	Singh M.	Mondal D.K. Ghosh K S

Department of Physics

Topic	Investigator	Supervisor(s)
Investigation on the Mechanical Properties of Carbon-Nanotube Based Composites	Agarwalla Rajesh Kumar	Chakraborty A.K. Mitra A.K.
Investigation on Synthesis and Optical Properties of Some ZnO Nanostructures	Chakraborty Sarbajit	Kumbhakar P.
Development of gas sensors for online monitoring of dissolved gas in transformers	Chatterjee Anjali	Roy N. K. Kumbhakar P.

Topic	Investigator	Supervisor(s)
Studies on Chaos based Secure Communication Systems	Chattopadhyay Debasish	Mandal M.K.
Synthesis of Polymer Nanocomposites and its Electrical Magnetic And optical Properties	Choudhury Somnath	Meikap A.K. Mandal M.K.
Z'-Boson, B-Mesons and New Physics	Das Chandan Kumar	Sahoo S. Maharana L.(U.U.)
Synthesis and Characterization of Nano Materials Using Nd:YAG Laser	Desarkar Himadri	Kumbhakar P. Mitra A.K.
Synthesis and Charectarization of Rare Earth Ortho Ferrite Nanocomposites	Hossain Mazaffar	Basu S. Pal M. (B.U.)
Studies on Synthesis, Photoluminescence and Nonlinear Optical Properties of ZnS Nanostructures	Kole Arup	Kumbhakar P.
Preparation and characterization of advanced polymer composites with carbon nanostructures	Meriga Venkanna	Chakraborty A.K.
Carbon nanotube-polymer composites: synthesis and Characterisation	Pal Subhashish	Chakraborty A.K. Mitra A.K.
Microstructure, Electrical and Optical Characterization of Some Industrial Nanocrystalline Materials Synthesized By High Energy Ball Milling	Saha Sourav	Meikap A.K. Pradhan S.K.
The effect of spontaneous and piezoelectric polarization on thermal and optical properties of Wurtzite Nitrides (GaN, AlN, InN and their ternary alloys)	Sahoo Sushant Kumar	Sahoo S. Sahoo B.K.
Electro-Optical Study of the Characteristics of liquid crystals	Sinha Subhojyoti	Meikap A.K Chatterjee S.K
Development of Dye Sensitized Nanocrystalline Solar Cells	Usha K.	Kumbhakar P. Mandal B.N. (CMERI)

Annexure–11.4(h) Ph.D. degree awarded till 2011-12

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Chemical Engineering	Dr. Shankar Mukherjee	Dr. A.P. Sinha
Chemical Engineering	Dr. S.K. Dutta	Dr. A.P. Sinha
Chemical Engineering	Dr. Sandip Kumar Lahiri	Dr. K.C. Ghanta
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Chemical Engineering	Dr. Mou Sen	Dr. P. Pal
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Chemical Engineering	Dr. A.K. Manna	Dr. P. Pal
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Chemistry	Dr. P. K. Banerjee	Dr. S. N. Banerjee
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Chemistry	Dr. V. K. Soi	Dr. N. Kurmaiah
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Chemistry	Dr. M. S. Adhikary	Dr. R. S. Konar
Chemistry	Dr. S. Guchait	Dr. R. S. Konar
Chemistry	Dr. R. Roy	Dr. M. M. Nandi
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Chemistry	Dr. S. Mishra	Dr. S. N. Banerjee
Chemistry	Dr. J. Chowdhuri	Dr. M. M. Nandi

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Chemistry	Dr. T. K. Chatterjee	Dr. G. C. Bhaumik
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Civil Engineering	Dr. M. N. Rao	Dr. M. M. Basole
Civil Engineering	Dr. P. K. Das	Dr. M. M. Basole
Civil Engineering	Dr. N. M. Basu	Dr. M. N. Rao
Civil Engineering	Dr. S. N. Srimani	Dr. P. K. Das
Computer Science & Engineering	Dr. Partha Bhattacharya	Dr. G. Sanyal
Computer Science & Engineering	Dr. Tilendra Shisir Sinha	Dr. G. Sanyal
Computer Science & Engineering	Dr. Anirban Sarkar	Dr. S. hattacharya
Computer Science & Engineering	Dr. Baisakhi Chakraborty.	Dr. D.Ghosh.
Computer Science & Engineering	Dr. Suvamoy Changder	Dr. D.Ghosh.
Computer Science & Engineering	Dr. Raj Kumar Samanta	Dr. G. Sanyal
Electrical Engineering	Dr. P. K. Sen	Dr. A. M. Roy
Electrical Engineering	Dr. (Mrs.) J. Majumder	Dr. S. P. Roy Choudhury
Electrical Engineering	Dr. Ranjit Roy	Prof. S.P. Ghoshal
Electrical Engineering	Dr. V. Mukherjee	Prof. S.P. Ghoshal
Electrical Engineering	Dr. S. Karmakar	Dr. N. K. Roy & Dr. P. Kumbhakar
Electrical Engineering	Dr. R. Bhaduri	Dr. S. Banerjee
Electrical Engineering	Dr. P.K. Roy	Prof. S.P. Ghoshal & Prof. S.S. Thakur
Electronics & Communication Engineering	Dr. Pranam Paul	Dr. A. K. Bhattacharjee & Dr. S. Datta
Electronics & Communication Engineering	Dr. Krishnendu Adhvaryu	Dr. A. K. Bhattacharjee Dr. C. Chanda (BESU) Dr. B. B. Maji
Electronics & Communication Engineering	Dr. Swapan Kumar Ghoshal	Dr. A. K.Bhattacharjee Dr. R. Ghatak
Electronics & Communication Engineering	Dr. Rajib Kar	Dr. A. K. Mal Dr. A. K. Bhattacharjee
Electronics & Communication Engineering	Dr. Durbadal Mandal	Dr. S. P. Ghoshal Dr. A. K. Bhattacharyya
Electronics & Communication Engineering	Dr. Narendra Nath Pathak	Dr. G.K. Mahanti
Electronics & Communication Engineering	Dr. Banani Basu	Dr.G.K. Mahanti
Electronics & Communication Engineering	Dr. Sanjay Dhar Roy	Dr. Sumit Kundu
Electronics & Communication Engineering	Dr. Joydeb Roychowdhury	Prof. A. K. Bhattacharjee
Geology	Dr. T. K. Saha	Prof. S. B. Bhattacharjee & Prof. S. N. Ghosh (ChE)
Geology	Dr. A. K. Batabyal	Mr. S. B. Bhattacharjee Dr. A. Mukherjee
Geology	Dr. K. Adhikari	Dr. A. Gangopadhyay Dr. P. Choudhury
Geology	Dr. Dibyendu Banerjee	Dr. A. Gangopadhyay Dr. S. Bhattacharyya Dr. S. K. Chakraborty
Humanities	Dr. R. Chaudhury	Dr. P. P. Sengupta & Dr. S. C.

Name of the Department	Investigator	Supervisor(s)
		Sikdar
Humanities	Dr. S. K. Seth	Dr. P. P. Sengupta
Humanities	Dr. Amit Bhattacharyya	Dr. P. P. Sengupta
Humanities	Dr. Paroma Mitra	Dr. P. P. Sengupta
Humanities	Dr. Rajib Roy	Dr. P. P. Sengupta
Humanities	Dr. Chinmoy Samajdar	Dr. P. P. Sengupta
Humanities	Dr. Niloy Sarkar	Dr. P. P. Sengupta
Humanities	Dr. Amit Bhattacharyya	Dr. P. P. Sengupta
Humanities	Dr. Tiyas Biswas	Dr. P. P. Sengupta
Humanities	Dr. Anupam De	Dr. B.N. Chakrabarti & Dr.G. Bandyopadhyay
Humanities	Dr. Anirban Dutta	Dr. P. P. Sengupta
Humanities	Dr. Sukanya Ghosh	Dr. P. P. Sengupta
Mathematics	Dr. E. Tarafder	Dr. A. K. Chowdhury
Mathematics	Dr. R. Sircar	Dr. D. N. Mitra
Mathematics	Dr.(Miss.) H. Chattapadhyay	Dr. B. K. Roy
Mathematics	Dr. J. Sanyal	Dr. A. N. Roy Chowdhury
Mathematics	Dr. D. Chatteraj	Dr. S. K. Bose
Mathematics	Dr. T. Chattopadhyay	Dr. S. K. Bose
Mathematics	Dr. T. Das	Dr. R. Sircar
Mathematics	Dr. S. S. Halder	Dr. S. K. Bose
Mathematics	Dr. (Smt) P. Chakraborty	Dr. A. N. Roy Chowdhury
Mathematics	Dr. Sambhu Nath Dey	Dr. D. Ghosh & Dr. S. C. Sikder
Mathematics	Dr. S. N. Dey	Dr. D. Ghosh (CSE) & Dr. S.C. Sikder
Mathematics	Dr. R Bhattacharyya	Dr. S. Kar & Dr. D DuttaMajumder
Mathematics	Dr. Debasis Das	Dr. S. Kar & Dr. A. Roy
Mathematics	Dr. Sathi Mukherjee	Dr. K. Basu
Mechanical Engineering	Dr. S. N. Mukherjee	Dr. S. K. Basu
Mechanical Engineering	Dr. D. K. Pal	Dr. S. K. Basu
Mechanical Engineering	Dr. S. N. Sengupta	Dr. S. K. Basu
Mechanical Engineering	Dr. G. Mitra	Dr. S. K. Basu
Mechanical Engineering	Dr. G. S. Gill	Prof. N. C. Dasgupta & Dr. D. Bhaduri
Mechanical Engineering	Dr. P. Basu	Prof. N. C. Dasgupta & Dr. D. Bhaduri
Mechanical Engineering	Dr. A. Majumdar	Dr. S. K. Basu
Mechanical Engineering	Dr. G. S. Patki	Dr. S. K. Basu
Mechanical Engineering	Dr. P. K. Sinha	Dr. D. Bhaduri
Mechanical Engineering	Dr. S. C. Nidhi	Dr. S. K. Basu
Mechanical Engineering	Dr. J. Basu	Dr. S. K. Basu
Mechanical Engineering	Dr. B. Bhaduri	Dr. S. K. Basu
Mechanical Engineering	Dr. S. P. Das	Dr. P. B. Choulia
Mechanical Engineering	Dr. M. S. Mukhopadhyay	Dr. D. K. Pal
Mechanical Engineering	Dr. M. R. Patkar	Dr. D. K. Pal & Dr. S. K. Basu
Mechanical Engineering	Dr. S. Chakraborty	Dr. D. K. Pal
Mechanical Engineering	Dr. M. A. Venkatesh	Dr. D. K. Pal
Mechanical Engineering	Dr. N. P. Mukherjee	Dr. D.K.Pal
Mechanical Engineering	Dr. S. Mukhrejee	Dr. S.N.Sengurpta & Dr. M.C.Majumder
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.

Name of the Department	Investigator	Supervisor(s)
		Dr. K. P. Ramachandran (CCE, Oman)
Mechanical Engineering	Dr. S. Vishnupriyan	Dr. K. P. Ramachandran (CCE, Oman) Dr. M. C. Majumder
Mechanical Engineering	Debroy Pradip	Dr. Ghosh S
Mechanical Engineering	Maity Atanu	Dr.Ghosh S. Dr. Majumder S. (CMERI)
Metallurgical & Materials Engineering	Dr. A. C. Ganguli	Dr. S. C. Dasgupta Dr. A. K. Chakraborty
Metallurgical & Materials Engineering	Dr. S. Banerjee	Dr. D. Bhaduri
Metallurgical & Materials Engineering	Dr. B. Deo	Dr. S. Sarkar
Metallurgical & Materials Engineering	Dr. A. Basu	Dr. S. C. Sengupta & Dr. S. Jana
Metallurgical & Materials Engineering	Dr. S. K. Chattopadhyay	Dr. S. K. Chatterjee & Dr. S. P. Sengupta
Metallurgical & Materials Engineering	Dr. K. Lal	Dr. S. K. Chattopadhyay & Dr. A. K. Meikap (PH)
Metallurgical & Materials Engineering	Dr. Subhendu Mukherjee	Prof. D. K. Mondal
Metallurgical & Materials Engineering	Dr. Debashis Ghosh	Prof. S.K. Mitra
Metallurgical & Materials Engineering	Dr. Ranjan Kumar Dasgupta	Prof. D. K. Mondal & Prof. A. C. Ganguli
Physics	Dr. N. Choudhury	Dr. M. S. Sinha
Physics	Dr. A. K. Das	Dr. M. S. Sinha
Physics	Dr. B. C. Nandi	Dr. M. S. Sinha
Physics	Dr. P. S. Basu	Dr. M. S. Sinha
Physics	Dr. G. S. Roy	Dr. M. S. Sinha
Physics	Dr. (Mrs.) Ragasree Sen	Dr. S. K. Chatterjee
Physics	Dr. D. Biswas	Dr. A. K. Meikap & Dr. S. K. Chattopadhyay
Physics	Dr. S. Sahoo	Dr. L. Maharana & Dr. A. K. Meikap
Physics	Dr. A. Sarkar	Dr. A. K. Meikap & Dr. S. K. Chatterjee
Physics	Dr. Jiten Ghosh	Dr. S. K. Chatterjee
Physics	Dr. Prasanta Kr. Singha	Prof. A.K. Mitra
Physics	Dr. Manajit Chattopadhyay	Dr. P.Kumbhakar
Physics	Dr. Somenath Ghatak	Prof. A. K. Meikap
Physics	Dr. Kajal Gupta	Prof. A. K. Meikap & Dr. P. C. Jana (V.U.)
Physics	Dr. Subrata Karmakar	Prof. N. K. Roy & Dr. P. Kumbhakar
Physics	Dr. Rajat Sarkar	Dr. P. Kumbhakar & Dr. A. K. Mitra
Physics	Dr. Keka Talukdar	Dr. A. K. Mitra
Physics	Dr. G. Chakraborty	Prof. A. K. Meikap
Physics	Dr. P. Ghosh	Prof. A. K. Meikap

Annexure–11.4(i) Testing & Consultancy services rendered during 2011-12

Department	Title of the Project	Amount (Total)
Chemical Engineering	Testing and Consultancy	Rs.12,000.00
Civil Engineering	Testing and Consultancy	Rs. 1,58,800.00
Metallurgical & Materials Engineering	Testing and Consultancy	Rs. 51291.00

11.5(a) Number of faculty in position

Name of Department	Professor	Associate Professor	Assistant Professor	Assistant Professor (Contractual)
Biotechnology	02	04	05	-
Chemical Engineering	06	03	04	-
Chemistry	01	05	04	-
Civil Engineering	06	05	06	-
Computer Application	Nil	Nil	05	02
Computer Science & Engineering	02	04	04	02
Electrical Engineering	05	04	06	-
Electronics & Communications Engineering	02	06	06	01
Geology	Nil	02	Nil	-
Humanities & Social Sciences	02	Nil	03	-
Information Technology	Nil	02	07	01
Management Studies	Nil	03	05	-
Mathematics	Nil	03	05	01
Mechanical Engineering	05	10	10	-
Metallurgical & Materials Engineering	02	05	05	01
Physics	01	02	03	-
T.P.S.W.	Nil	-	-	-
Total	34	58	78	08

Annexure-11.5(b) List of Faculty

Director	Ghosh Debidas, PhD (upto 10.07.2011)
	&
	Kumar Tarkeshwar, PhD (from 11.07.2011)
Dean, Administration	Sengupta Partha Pratim, PhD (upto 21.11.2011)
	Sarker Jyoti Prakash, PhD (from 21.11.2011)
Dean, Academic	Das Sunil Baran, PhD (upto 30.09.2011)
	Mondal Dipak Kumar, PhD (from 21.11.2011)
Dean, Planning & Development	Haldar Subhamay, PhD
Dean , Faculty Welfare	Mitra Swapan Kumar, PhD
Dean, Students Welfare	Sanyal Goutam, PhD
Dean, Research& Consultancy	Gupta Parthapratim, PhD

Department of Biotechnology

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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

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Haldar Subhamay, PhD	Professor	Combustion Engineering	subhamay.halder@che.nitdgp.ac.in shaldar_nitd@yahoo.co.in
Halder Gopinath, PhD	Assistant Professor	Chemical Engg Thermodynamics, Process Heat Transfer, Environmental Energy	gopinath_haldar@yahoo.co.in gopinathhaldar@gmail.com
Mandal Mrinal Kanti, PhD	Assistant Professor	Membrane Seapartion Processes Petroleum Refinery, Mass Transfer Operation, Modeling, Simulation and Optimization of Process Design	mrinalkanti.mandal@che.nitdgp.ac.in mrinalmandal@gmail.com mrinal_ml78@yahoo.co.in
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Paruya Swapan, PhD	Assistant Professor	Boiling Two-phase Flow, Optimization & Control	swapan.paruya@che.nitdgp.ac.in swapanparuya@rediffmail.com
Sadhukhan Anup Kumar, PhD	Associate Professor	Modelling and Experimental studies on, Pyrolysis and Gasification of Coal and Biomass	anupkumar.sadhukhan@che.nitdgp.ac.in t_sadhu@yahoo.com
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Department of Chemistry

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Das Sunil Baran, PhD (Retired)	Professor	Synthetic Organic Chemistry, Solid Waste Management	sunilbaran.das@ch.nitdgp.ac.in sbdas02@yahoo.co.in
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Moi Sankar Chandra, PhD	Assistant Professor	Kinetics and mechanism of biologically important Inorganic substitution reaction	sankar.moi@ch.nitdgp.ac.in sankarmoi67@yahoo.com
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Sukul Dipankar, PhD	Associate Professor	Ultra fast laser spectroscopy and Electrochemistry	dipankar.sukul@ch.nitdgp.ac.in dipankar.sukul@gmail.com

Department of Civil Engineering

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Singha Roy Dilip Kumar, PhD	Professor	Structural Engineering, Comp. & Exp. Mechanics of concrete and composite structures & materials	dilip.singharoy@ce.nitdgp.ac.in
Topdar Pijush, PhD	Assistant Professor	Smart structures, composite and sandwich structures, structural rehabilitation and structural health monitoring	pijush.topdar@ce.nitdgp.ac.in topdar72@yahoo.co.uk

Department of Computer Applications

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Choudhury Prasenjit	Assistant Professor	Ad-hoc Network, Network Security	prasenjit.choudhury@mca.nitdgp.ac.in prasenjit0007@yahoo.co.in
Das Suvrojit	Assistant Professor	System Security	suvrojit.das@mca.nitdgp.ac.in suvrojit.das@gmail.com
Saha Mousumi	Assistant Professor	VLSI Design	mousumi.saha@mca.nitdgp.ac.in msaha.nitd@gmail.com
Saha Sujoy	Assistant Professor (Contractual)	Mobile Communication, Network Security	sujoy.ju@gmail.com
Sarkar Anirban, PhD	Assistant Professor	Software Engineering, Data Warehousing	anirban.sarkar@mca.nitdgp.ac.in sarkar.anirban@gmail.com
Sharma Abhijit	Assistant Professor (Contractual)	Mobile Computing	abhijit.sharma@mca.nitdgp.ac.in abhijit.cst@gmail.com

Department of Computer Science and Engineering

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Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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De Tanmay, PhD	Associate Professor	Optical Networks	tanmoy.de@cse.nitdgp.ac.in tanmayd12@gmail.com
Ghosh Debidas, PhD	Professor	Software Engineering, Network Cryptography	debidas.ghosh@cse.nitdgp.ac.in profdg@yahoo.com
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Pal (DebRay) Tandra, PhD	Associate Professor	Soft Computing	tandra.pal@cse.nitdgp.ac.in tandranit@yahoo.com
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Sen Bibhash	Assistant Professor	QCA based design, VLSI	bibhash.sen@cse.nitdgp.ac.in bibhash.sen@gmail.com
Roy Suchismita, PhD	Associate Professor	Algorithms in VLSI Design and Test, Satisfiability Checking	suchismita.roy@cse.nitdgp.ac.in suchismita27@yahoo.com

Department of Electrical Engineering

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Das Avinandan	Assistant Professor	Electrical Machines	avinandan.das@ee.nitdgp.ac.in
Datta Swapan Kumar, PhD	Professor	Electrical Machines & Drives	swapan.dutta@ee.nitdgp.ac.in skd_nit_ee@yahoo.co.in
De Jayati, PhD	Assistant Professor	Control Systems	jayati.dey@ee.nitdgp.ac.in deyjayati@rediffmail.com
Ghosh Saradindu, PhD	Professor	Power Systems, High Voltage, Electromagnetic Fields	sghosh.ee@gmail.com

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Mahato Sankar Narayan, PhD	Associate Professor	Electrical Machines & Drives	sankar.mahato@ee.nitdgp.ac.in snmrec@yahoo.co.in
Ray Nirmal Kumar, PhD	Professor & Head	High Voltage Engineering, Simulation of Magnetic fields, e-governance, Application of ICT in High Voltage Engineering	nirmalkumar.roy@ee.nitdgp.ac.in roy.nk2003@gmail.com
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Department of Geology

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Department of Humanities and Social Sciences

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Department of Information Technology

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Department Of Management Studies

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Department of Mathematics

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Bagchi Satya	Assistant Professor	Combinatorics, Design Theory	satya.bagchi@maths.nitdgp.ac.in satya5050@gmail.com
Basu Kajla, PhD	Associate Professor	Parallel Algorithms, Operations Research, Statistical Analysis, Fuzzy Mathematics	kajla.basu@maths.nitdgp.ac.in kajla2007@rediffmail.com kajla.basu@gmail.com
Dey Lakshmi Kanta, PhD	Assistant Professor	Fixed Point Theory, Functional Analysis, Real Analysis, Topology, and Coding Theory	lakshmikanta.dey@maths.nitdgp.ac.in lakshmikdey@gmail.com
Kar Samarjit, PhD	Associate Professor & Head	Fuzzy Mathematics, Optimization, Portfolio Management, Soft Computing	samarjit.kar@maths.nitdgp.ac.in kar_s_k@yahoo.com
Maitra Sarit, PhD	Assistant Professor	Nonlinear waves in Plasma	sarit_dr@rediffmail.com
Sarkar (Mondal), Seema, PhD	Associate Professor	Operations Research, Statistical Analysis, Supply chain Management, Portfolio Management, Geodesy & geophysics.	seema.sarkar@maths.nitdgp.ac.in seemasarkarmondal@yahoo.co.in
Pal Anita, PhD	Assistant Professor	Computational Graph Theory, Fuzzy Sets	anita.pal@maths.nitdgp.ac.in anita.buie@gmail.com
Pal Pinaki, PhD	Assistant Professor	Pattern forming instabilities in thermal convection, Magnetohydrodynamics, Computational fluid dynamics, Nonlinear dynamics in related areas and Complex network.	pinaki.math@gmail.com
Panigrahi Gautam	Assistant Professor (Contractual)	Optimization Techniques, Electronic Commerce	panigrahi_goutam@rediffmail.com

Department of Mechanical Engineering

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Banerjee Nilotpal, PhD	Associate Professor	Vehicle Dynamics, Mechanical System Modelling and Simulation	nilotpal.banerjee@me.nitdgp.ac.in nil_rec@yahoo.com
Basak Indrajit, PhD	Professor	Non-Conventional Machining, Design of Machine Elements	indrajit.basak@me.nitdgp.ac.in basak_indrajit@yahoo.com
Bera Biswajit	Assistant Professor	Nanotribology, Biotribology	Biswajit.bera@me.nitdgp.ac.in bisu_bera@yahoo.com
Biswas Arup Kumar	Associate Professor	Fluid Mechanics, Hydraulic M/cs	arup.biswas@me.nitdgp.ac.in
Das Asim Kumar	Assistant Professor	Fluid Mechanics, Hydraulic M/cs	ashim.das@me.nitdgp.ac.in asim.das19@gmail.com
De Jagannath	Assistant Professor	Machine Tools, Metal Cutting	jagannath.de@me.nitdgp.ac.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Dey Nilratan, PhD (Retired)	Professor	Welding Technology	nilratan.dey@me.nitdgp.ac.in
Ghosh Sukamal, PhD	Professor	Metal Cutting, Unconventional Machining, Ocean Wave Engineering	sukamal.ghosh@ hotmail.com sukamal_ghosh@yahoo.co.in
Halder Biswajit, PhD	Professor & Head	Hydraulics & Hydraulic Machines, Machine Dynamics, Rotordynamics, Fluid mechanics	biswajit.halder@me.nitdgp.ac.in jeetarkaanik@yahoo.co.in
Hui Nirmal Baran, PhD	Assistant Professor	Mobile Robotics, Soft Computing, Computer Graphics	nirmal.hui@me.nitdgp.ac.in
Karmakar Sujit	Assistant Professor	Energy, Power Plant Engineering, CO_2 Sequestration, Circulating Fluidized Bed Combustion and Heat Transfer	sujit.karmakar@me.nitdgp.ac.in sujitkarmakar@yahoo.com
Khan Kallol, PhD	Assistant Professor	Dynamics of Plates, Vibration of Composite structures, bimodulus-composite, finite element methods	kallol.khan@me.nitdgp.ac.in Kallol_rec@yahoo.co.in
Layek Apurba, PhD	Associate Professor	Solar Energy, Heat Transfer, I. C. Engine	apurba.layek@me.nitdgp.ac.in apurba_layek@yahoo.co.in
Majumder Manik C. , PhD	Professor	Tribology of Bearings, Mechanical Vibration, Infrared Thermography, Process Reliability	manik.majumder@me.nitdgp.ac.in manik_rec@yahoo.com
Mitra Ambuj Kumar	Associate Professor	Computational Stress Analysis, Mechanics	ambuj.mitra@me.nitdgp.ac.in
Mitra Ranjan Kumar	Assistant Professor	Dynamics and Control, Nonlinear Vibration	ranjankumar.mitra@me.nitdgp.ac.in ranjan_kr_mitra@yahoo.com
Mukhopadhyay Sumit	Associate Professor	Robotics, Control Systems	sumit.mukherjee@me.nitdgp.ac.in
Mullick Amar Nath, PhD	Associate Professor	Computational & Experimental Fluid Dynamics, Microfluids	amaranth.mullick@me.nitdgp.ac.in anmullick@gmail.com
Patari Animesh	Assistant Professor	Fluid Mechanics & Fluid Power System and Control	animesh.patari@me.nitdgp.ac.in patari_animesh@rediffmail.com
Pramanick Achintya Kumar, PhD	Associate Professor	Constructal theory, Finte-time Thermodynamics, Aerothermodynamics	achintyakumar.pramanick@me.nitdgp.ac.in akpramanick@yahoo.com
Pramanik Shantanu	Assistant Professor	Fluid Mechanics	shantanu.pramanik@me.nitdgp.ac.in
Puri Asitbaran, PhD	Associate Professor	Non-conventional Machining Processes	asitbaran.puri@me.nitdgp.ac.in abpuri2000@yahoo.co.in
Rana Subhash Chandra	Assistant Professor	CFD	subhas.rana@me.nitdgp.ac.in
Roy Shibendu Shekhar	Assistant Professor	Mobile Robot, Soft Computing	shibendushekhar.roy@me.nitdgp.ac.in ssroy@nitdgp.ac.in
Saha Anup Kumar, PhD	Professor	Vehicle Dynamics, Machine Dynamics, Bond graph Modeling, Biomechanics	anupkumar.saha@me.nitdgp.ac.in saha_ak2001@yahoo.co.in
Sengupta Amitava	Associate Professor	IC Engines, Refrigeration & Air Conditioning	amitava.sengupta@me.nitdgp.ac.in Aseg_nitdgp@yahoo.co.in

Department of Metallurgical & Materials Engineering

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Bera Supriya, PhD	Assistant Professor	Physical Metallurgy, Powder Metallurgy, Metallurgical Thermodynamics	supriyabera@gmail.com
Bhattacharyya Asish, PhD	Associate Professor	Foundry, Mechanical Testing, Nano-Composites	profab@mms.nitdgp.ac.in abnitd@yahoo.co.in
Chakraborty Rajib	Associate Professor & Head	Agglomeration, Direct Reduction	rajiby2k1@yahoo.com
Ghosh Karuna Sindhu, PhD	Associate Professor	Corrosion, Physical Metallurgy, Welding	karunasindhu.ghosh@mms.nitdgp.ac.in ksghosh2001@yahoo.co.uk
Ghosh Madan Mohan, PhD	Assistant Professor	Heat treatment, Dual Phase Steel, Metallography, Deformation behaviour of Materials	profmmg@mms.nitdgp.ac.in mmgrecd@yahoo.co.in mmgnitd@gmail.com
Maity Joydeep, PhD	Associate Professor	Diffusion, Phase Transformation, heat treatment and transient Liquid Phase Bonding	joydeep.maity@mms.nitdgp.ac.in joydeep_maity@yahoo.co.in
Mallik Manab	Assistant Professor (Contractual)	Advanced materials, Mechanical Metallurgy, Materials Characterization	Manabmallik@yahoo.co.in Manabmallik@gmail.com
Mitra Swapan Kumar, PhD	Professor	Thermodynamics & high temp. Corrosion of metals & alloys	deanfaculty@admin.nitdgp.ac.in skmnitd@yahoo.co.in
Mondal Dipak Kumar, PhD	Professor	Physical Metallurgy, Heat treatment & Metallography	profdkm@mms.nitdgp.ac.in dk_mondal2003@yahoo.co.in
Mondal Manas Kumar	Assistant Professor	Physical Metallurgy, Mathematical Modelling	manas.mandal@mms.nitdgp.ac.in manas_nitdgp@yahoo.co.in
Pramanik Susanta	Assistant Professor	Iron Making & Steel Making	susanta.pramanik@mms.nitdgp.ac.in sus_met@yahoo.com
Ray Rabindranath	Associate Professor	Mathematical Modelling, Transport Phenomena, Thermodynamics	profrnr@mms.nitdgp.ac.in rnray_mete@yahoo.co.in
Show Bijay Kumar	Assistant Professor	Mechanical behaviour of metals, Microalloyed steel, X-Ray Diffraction	bijay.show@mms.nitdgp.ac.in bijayshow@gmail.com

Department of Physics

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Basu Soumen, PhD	Assistant Professor	Nanomaterials, Multiferroics	soumen.basu@phy.nitdgp.ac.in
Chakraborty Amit, PhD	Associate Professor	Carbon nanotubes, graphene and & related nanostructures, - polymer nanocomposites,	amit.chakraborty@phy.nitdgp.ac.in amitkc61@gmail.com
Chatterjee Sanat Kumar, PhD	UGC Emeritus Professor	Liquid Crystals, X-ray Diffraction	sanatkumar.chatterjee@phy.nitdgp.ac.in sanat_chatterjeein@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Kumbhakar Pathik, PhD	Associate Professor	Nanophotonics, Nonlinear Optics, PD Sensor, Gas Sensor	pathik.kumbhakar@phy.nitdgp.ac.in nitdgpkumbhakar@yahoo.com
Meikap Ajit Kumar, PhD	Professor & Head	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, Z' boson phenomenology, B meson decays	sukadev.sahoo@phy.nitdgp.ac.in sukadevsahoo@yahoo.com

Training Placement and Students' Welfare

Name	Designation	
Sarkar Satya Narayan, PhD	Professor	Till 31.01.2012

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

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	Das Sunil Baran	Chemistry	Professor	30.09.2011
2	De Nil Ratan	Mechanical Engg.	Professor	30.06.2011
3	Sarkar S.N.	T.P.S.W	Professor	31.01.2012
4	Sen Adrija	Information Technology	Asstt. Prof.	31.05.2011(resigned)
5	Sharma Monalisa	Computer Sc. & Engg.	Asstt. Prof.	24.08.2011(resigned)

Annexure-11.6(a) Number of Officers

Designation	Sanctioned	In position
Registrar	1	Vacant
Librarian	1	1
Deputy Registrar (Admn)	1	1
Deputy Registrar (Accounts)	1	1
Maintenance Engineer	1	1
Manager (Hostel, Estate & Security)	1	1
Medical Officer	2	2
Officer, TPSW	1	Vacant
Audit Officer	1	1
Administrative Officer	1	1
Asstt. Registrar (Academic)	1	1
Asstt. Librarian	1	Vacant
Jr. Accounts Officer	1	1
Physical Training Instructor	1	1
Programmer	1	1
System Manager	1	1
Stores Officer	1	1
Foreman	3	2

Annexure-11.6(b) List of Officers

Registrar	Vacant
Librarian	Mondal Manik, PhD
Deputy Registrar (Admn)	Ray Dhrubajyoti
Deputy Registrar (Accounts)	Mukherjee Uday Chandra
Maintenance Engineer	Haldar Tanmay
Manager (Hostel, Estate & Security)	Chattopadhyay Aloke Kr.
Audit Officer	Das Ashutosh
Administrative Officer	Sinha Sanat Kumar
Asstt. Registrar(Academic)	Sardar Amiya Kumar
Jr. Accounts Officer	Bhattacharya Sayan
Physical Training Instructor	Mukherjee Hillol
Stores Officer	Mondal Debasish

Computer Centre

Assistant Professor /System Manager	Saravanan C, PhD
Lercturer / Programmer	Chatterjee Rajib

Library

Librarian	Mondal Manik, PhD
Assistant Librarian	Vacant

Workshop

Superintendent	Vacant
Foreman	Dutta Goutam
	Roy Ashok Kumar

Medical Unit-cum-Hospital

Medical Officer	Patra Sucharita (Dr.)
Medical Officer	Sarkar Banhi Kumar (Dr.)

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

	Designation	In position
1	Asstt. Foreman	08
2	Cleaner	01
3	Draftsman	01
4	Driver	01
5	Duftry	01
6	Dupl. Machine Operator	01
7	Engg. Asstt.	03
8	General Duty Attd.	02
9	Head Asstt.	01
10	Hostel Cook	03
11	Jr. Computer Operator	02
12	Key Punch Operator	02
13	Laboratory Assistant	03
14	Laboratory Attd/Skilled Staff	07
15	LDA/LDC	22
16	Mali	02
17	Mazdoor	01
18	Mess Manager	05
19	Metron	01
20	Office Peon/Helper	37
21	Pharmacist	01
22	Sanitary Inspector	01
23	Security Inspector	Nil
24	Skilled staff Gr.-I	14
25	Sr. Lib. Asst/Lib. Asst.	03
26	Stack Attd(Lib)	02
27	Staff Nurse	03
28	Store Attendant	01
29	Sweeper	06
30	Technical Assistant	20
31	Telephone Mechanics	01
32	UDA/UDC	18
33	Watchman	04
34	Workshop Attendant	01
	Total	179

Annexure-11.6(d) New Recruitment of Staff
  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/ Death
1	Basu Satinath	Chemistry	Lab. Assistant	31.01.2012
2	Bhattacharya Amiya	Medical Unit	G.D.A	29.02.2012
3	Chatterjee Purnendu	Estate Section	Security Inspector	31.10.2011
4	Das Muktipada	Estate Section	Watchman	31.01.2012
5	Dome Hakim	Maintenance	Sweeper	27.09.2011(expired)
6	Dutta Joydeb	Electrical Engg.	Helper	31.01.2012
7	Hansda Rajesh	Estate Section	L.D.A	22.10.2011(expired)
8	Hazra Rabindra Nath	Estate Section	Watchman	18.01.2012(expired)
9	Mukherjee Ashoke	Workshop	Helper	31.01.2012

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

Department of Biotechnology

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Das P.	UGC sponsored 3 weeks Refresher course on "Recent Advances in Environmental Engineering &Science"	Civil Engineering Department, Jadavpur University	December 19, 2011 - January 10, 2012
2	Das P.	Wastewater Quality Monitoring	NITTTR, kolkata	February 20 – 24, 2012
3	Kazy S.K.	Group Monitoring Workshop in the area of Life Sciences at Udaipur, Rajasthan for SERC Fast Track Project	Mohan Lal Sukhadia University, Udaipur, sponsored by DST, Govt. Of India	September 27 – 28, 2011

Department of Chemical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Sadhukhan A. K.	CEP course on Energy management system	IIT Bombay	November 21-25, 2011
2	Sadhukhan A. K.	World Petro Coal congress 2nd International conference and Exhibition	New Delhi Convention Centre	February 15-17, 2012

Department of Chemistry

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Chakrabarty J.	Group Monitoring Workshop in the area of Life Sciences at Udaipur, Rajasthan for SERC Fast Track Project	Mohan Lal Sukhadia University, Udaipur, sponsored by DST, Govt. of India	September 27 - 28, 2011
2.	Panja S.S.	Fast Track –Young Scientist Expert Committee meeting (Broad Area-Chemical Sciences)	SRM University, Kattankulathur, Tamil Nadu, sponsored by DST, Govt. of India	January 21, 2012
3.	Saha R.N.	Review meeting of progress of completed SERC Fast Track Project	IIT, Guwahati, spomsored by DST, Govt. Of India	July 29-30, 2011

Department of Civil Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Banik A. K.	Engineering Optimization using Excel and Matlab	IIT Guwahati	February 29-March 02, 2012

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
2	Pal S.	Workshop on HYDRUS: Modelling water flow and contaminant transport in soils and groundwater using the HYDRUS software packages	Department of Civil Engineering, IISc., Bangalore and Karnataka State Council for Science and Technology, IISc., Bangalore	February 4-5, 2012.

Department of Electrical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Ghoshal S.P.	NBA Acreditation Workshop	AICTE	August 18-19, 2011

Department of Electronics & Communication Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Mandal S. K.	Summer Workshop cum Tutorial on Antenna and Microwave Teaching: New Thoughts and Challenges	IEEE Antennas & Propagation and Microwave Theory & Techniques, Calcutta Chapter & UGC Networking Resource Centre in Physical Sciences, University of Calcutta	June 13-17, 2011.

Department of Geology

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Adhikari K.	A Primer on GeoStatistics under the scheme " National Program for training of Scientist and Technologists working in the Government Sector	Indian School of Mines, Dhanbad	January 16 – 20, 2012
2	Adhikari K.	Workshop on 'HYDRUS': Modelling of water flow and contaminant transport in soils and groundwater using the HYDRUS Software package	Dept of Civil Engineering , Indian Institute of Science, Bangalore and Karnataka State Council for Science & Technology, Bangalore	February 4-5, 2012
3	Adhikari K.	World Petrocoal Congress, 2nd International Conference	Energy and Environment Foundation	February 15-17, 2012

Department of Mathematics

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Dey L. K.	Advance of computing and education	IITA Springer, Singapore	May 05 – 06, 2011

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
2	Pal A.	ICHCC-ICTMF-2011	IITA Springer, Singapore	May 05-06, 2011
3	Pal Anita	Workshop on Graph Theory	Rajshahi University, Bangladesh	May18-20, 2011
4	Pal A.	ICPEE-2011	International Conference on Power and Energy Engineering , Bangkok, Thailand	July 29-31, 2011
5	Pal A.	International conference on Business and Information Management (ICBIM-2012),	NIT Durgapur	January 9-11, 2012

Department of Mechanical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Das A. K.	Short Term Course on Modern Measurement Techniques in Fluid and Thermal Engineering	IIT Roorkee	July 7-11, 2011
2.	Das A. K.	Short Term Course on Recent Advancement in Micro Fluidics	IIT Guwahati	Oct 31-Nov 4, 2011
3.	Karmakar S.	Continuing Education Program on Energy Management	IIT Bombay	Nov 21 – 25, 2011
4.	Mitra R. K.	Modeling and Analysis of Dynamic Systems	NIT Rourkela, INDIA	December 05- 07, 2011
5.	Mitra R. K.	Workshop on Engineering Optimization using MATLAB & EXCEL	IIT Guwahati	February 29-March 2, 2012

Department of Metallurgical & Materials Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Ghosh K. S.	International Conference on "Advances in Metallic Materials and Manufacturing Processes for Strategic Sectors (ICAMPS)".	Trivandrum	January 19-21, 2011.
2.	Mondal M. K.	NRC-M Winter Workshop on Finite Element Methods in Materials Engineering	Materials Engineering department, IISC, Bangalore	December 12–6, 2011
3.	Pramanik S.	Training Programme on Corrosion Prevention and Control	IIT Madras	February 14-15, 2012

Department of physics

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Basu S.	Workshop on Advanced Functional Materials	Department of Physics, BHU, Varanasi	March 19-24, 2012.

2.	Kumbhakar P.	Recent Trends in Optoelectronics	Dept. of Physics, Sripat Singh Collge, Jiagang, Murshidabad, W.B., India	February 3, 2012
3.	Kumbhakar P.	Second National Seminar on Recent Trends in Condensed Matter Physics including Laser Application (SNSCMPLA 2012)	Dept. of Physics, The University of Burdwan, Burdwan, W.B., India	March 22-23, 2012
4.	Meikap A.K.	National Seminar on "Recent Trends on Novel Materials (RTNM-II)"	Dept. of Phys. & Technophysics, Vidyasagar University, Midnapur (West)	November 29-30, 2011
5.	Meikap A.K.	National Seminar on Recent Trends in Condensed matter Physics Including Laser Applications (SNSCMPLA2012)	Dept. of Physics, University of Burdwan	March 23, 2012
6.	Sahoo S.	workshop on Experimental Physics	Department of Physics, Ispat Autonomous College, Rourkela, Odisha	March 18, 2012

Annexure – 11.7(c) Training of staff members during 2011-12

Library

SL. NO.	Name	Name of the Programme	Organized by	Date of the programme
1	Kujur S.	14th. National Convention on Knowledge , Library and Information Networking(NACLIN)	Visva-Bharati, Santiniketan and DELNET	November 15-17, 2011
3	Mandal M.	14th. National Convention on Knowledge , Library and Information Networking(NACLIN)	Visva-Bharati, Santiniketan and DELNET	November 15-17, 2011
2	Sarkar, S.	14th. National Convention on Knowledge , Library and Information Networking(NACLIN)	Visva-Bharati, Santiniketan and DELNET	November 15-17, 2011

Department of Physics

SL. NO.	Name	Name of the Programme	Organized by	Date of the programme
1	Chakraborty, A. K.	DST sponsored training program on "Ethics and values in science"	Indian School of Mines (ISM), Dhanbad, INDIA	December 12 – 16, 2011.

Annexure– 11.8(a) List of programmes offered

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

The Institute provides instruction in the following courses leading to 4 Year (8 Semester) B.Tech. Degree:

Sl. No.	Courses Offered	Degree Offered
1	Bio – Technology	B. Tech.
2	Chemical Engineering	B. Tech.
3	Civil Engineering	B. Tech.
4	Computer Science & Engineering	B. Tech.
5	Electrical Engineering	B. Tech.
6	Electronics & Communication Engineering	B. Tech.
7	Information Technology	B. Tech.
8	Mechanical Engineering	B. Tech.
9	Metallurgical & Materials Engineering	B. Tech.

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

M. Tech. programmes:

Dept. / Specialisation	Year of Starting	Full / Part time	Duration	Sanctioned intake
Biotechnology	2008	Full Time	2 years	20
Chemical Engineering	1968	Full Time	2 years	23
		Part Time (Day)	3 years	
Civil Engineering (Structural Engineering)	1971	Full Time	2 years	23
		Part time (Day)	3 years	
Chemistry (Corrosion Science & Technology)	1996	Full Time	2 years	23
		Part time (Day)	3 years	
Computer Application (software Engineering)	2011	Full time	2 years	20
Computer Science & Engineering (Information Technology)	2004	Full Time	2 years	23
Electrical Engineering (Industrial Electrical System)	1969	Full Time	2 years	23
		Part time (Day)	3 years	
Electronics & Communication Engg (Telecommunication Engg)	2005	Full Time	2 years	23
Electronics & Communication Engg (Microelectronics & VLSI)	2008	Full Time	2 years	23
Geology – co-ordinating dept. (Environmental Science & Technology)	2008	Full Time	2 years	20
Information Technology (Information Security)	2008	Full Time	2 years	23
Mathematics (Operations Research)	1990	Full Time	2 Years	23
		Part time (Day)	3 years	
Mechanical Engineering (Design & Production Engineering)	1966	Full Time	2 years	23
		Part time (Day)	3 years	
Metallurgical Engineering (Industrial Metallurgy)	1966	Full Time	2 years	23
		Part time (Day)	3 years	
Metallurgical Engineering (Materials Engg)	1966	Full Time	2 years	23
		Part time (Day)	3 years	
Physics (Advanced Materials Science & Technology)	2006	Full Time	2 years	23

Other programmes:

Dept. / Programme	Full / Part time	Year of Starting	Duration	Sanctioned intake
Management Studies (MBA)	Full Time	2004	2 Years	92
Computer Applications (MCA)	Full Time	2000	3 Years	92
Physics (M. Sc. in Physics)	Full Time	2009	2 Years	20
Chemistry (M. Sc. in Chemistry)	Full Time	2009	2 Years	20
Mathematics (M. Sc. in Mathematics with Computer Applications))	Full Time	2010	2 Years	20

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

11.8. (b). 1. Enrolment in B. Tech. programmes, 2011– 2012 (Genderwise):

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B. Tech. I & II	83 (20)	63 (12)	64 (03)	94 (17)	91 (20)	97 (14)	93 (17)	146 (01)	76 (08)	807 (112)
B. Tech. III & IV	57 (12)	58 (06)	68 (04)	91 (14)	96 (21)	93 (16)	82 (14)	147 (05)	64 (11)	756 (103)
B. Tech. V & VI	40 (09)	53 (11)	50 (06)	98 (13)	92 (23)	84 (19)	85 (16)	134 (06)	53 (07)	689 (110)
B. Tech. VII & VIII	51 (18)	40 (08)	47 (03)	74 (10)	78 (09)	73 (15)	63 (12)	112 (05)	52 (07)	590 (87)
Total	231(59)	214 (37)	229 (16)	357 (54)	357 (73)	347 (64)	323 (59)	539 (17)	245 (33)	2842 (412)

(Number of female students indicated in paranthesis. The total number is inclusive of the number of girl students)

11.8. (b). 2. Enrolment in B. Tech. programmes, 2011 – 2012 (Castewise):

Dept.	B. Tech. I & II Semesters					B. Tech. III & IV Semesters					B. Tech. V & VI Semesters					B. Tech. VII & VIII Semesters				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	48	10	04	21	83	29	08	05	15	57	17	10	05	08	40	31	11	07	02	51
ChE	34	09	04	16	63	30	07	05	16	58	33	07	03	10	53	26	06	03	05	40
CE	37	06	04	17	64	37	09	04	18	68	33	06	03	08	50	32	07	03	05	47
CSE	51	14	07	22	94	48	14	06	23	91	69	12	04	13	98	54	09	04	07	74
ECE	47	11	07	26	91	50	14	07	25	96	60	12	06	14	92	56	12	04	06	78
EE	50	13	07	27	97	50	14	05	24	93	53	12	06	13	84	51	11	05	06	73
IT	50	13	06	24	93	40	11	07	24	82	52	12	05	16	85	44	09	05	05	63
ME	80	18	09	39	146	83	16	10	38	147	85	16	10	23	134	82	13	07	10	112
MME	40	12	06	18	76	31	09	05	19	64	27	09	05	12	53	35	07	05	05	52
Total	437	106	54	210	807	398	102	54	202	756	429	96	47	117	689	411	85	43	51	590

11.8. (b). 3. Enrolment in M. Tech. & M. Sc. Programmes, 2011– 2012 (Gender wise)

Semester	BT	CA	ChE	CH	CE	CSE	EE	ECE (TELE)	ECE (VLSI)	Geo (EST)	IT	M	ME	MME (IM)	MME (ME)	PH	TOT
M. Tech. I & II	16 (10)	19 (5)	13 (4)	3	17 (7)	24 * (6)	16 (1)	22 (3)	21 (10)	17 (11)	20 (6)	17 (5)	21	9(2)	9 (2)	13 (3)	257 (75)
M. Tech. III & IV	20 (9)	0	8 (4)	5 (1)	7 (3)	21 (3)	12 (3)	23 (4)	21 (8)	14 (10)	22 (3)	12 (2)	15 (3)	2	4(2)	11 (4)	197 (59)
M. Tech. V & VI	0	0	2 (1)	0	1	0	5	0	0	0	0	0	1	3	1	0	13 (1)
M.SC. I & II	0	0	0	12 (2)	0	0	0	0	0	0	0	6 (3)	0	0	0	9 (1)	26 (6)
M.SC. III & IV	0	0	0	10 (4)	0	0	0	0	0	0	0	5 (2)	0	0	0	8 (3)	23 (9)

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

11.8. (b). 4. Enrolment in M. Tech. & M. Sc. Programmes, 2011– 2012 (Caste wise)

Dept./ Year	I & II					III & IV					V & VI				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	10	2	0	4	16	13	2	1	4	20	0	0	0	0	0
CA	12	3	0	4	19	0	0	0	0	0	0	0	0	0	0
ChE	10	1	0	2	13	4	2	0	2	8	2	0	0	0	2
CH	1	1	0	1	3	5	0	0	0	5	0	0	0	0	0
CE	11	2	0	4	17	3	2	0	2	7	1	0	0	0	1
CSE	16	3	1	4	24*	15	2	1	3	21[*]	0	0	0	0	0
EE	10	3	0	3	16	7	2	0	3	12	4	0	0	0	4
ECE (TELE)	15	3	0	4	22	16	2	1	4	23	0	0	0	0	0
ECE (VLSI)	12	4	0	5	21	14	3	0	4	21	0	0	0	0	0
Geo (EST)	13	0	0	4	17	12	1	0	1	14	0	0	0	0	0
IT	13	3	0	4	20	15	3	0	4	22	0	0	0	0	0
M	14	2	0	1	17	12	0	0	0	12	5	0	0	0	5
ME	14	3	0	4	21	11	2	0	2	15	3	0	0	0	3
MME (IM)	6	0	0	3	9	1	0	0	1	2	0	0	0	0	0
MME (ME)	6	1	0	2	9	3	0	0	1	4	0	0	0	0	0
PH	13	0	0	0	13	7	0	0	4	11	0	0	0	0	0
M. Sc. (CH)	11	0	0	1	12	9	0	0	1	10	0	0	0	0	0
M.Sc. (Math)	**5**	**0**	**0**	**1**	**6**	**5**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	**0**
M. Sc. (PH)	6	0	1	2	9	7	0	0	1	8	0	0	0	0	0
Total	198	31	2	53	230	146	20	4	30	200	15	0	0	0	15

* 2 No. QIP (Polytechnic) Students

11.8. (b). 5. Enrolment in MCA programmes, 2011 – 2012 (Gender wise)

Master of Computer Applications	I & II Semester	III & IV Semester	V & VI Semester
	90 (30)	59 (7)	59 (6)

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

11.8. (b). 6. Enrolment in MCA programmes, 2011 – 2012 (Caste wise)

Dept	MCA I & II					MCA III & IV					MCA V & VI				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
MCA	46	13	7	24	90	31	9	1	18	59	34	10	2	13	59

11.8. (b) 7. Enrolment in MBA programmes 2011 – 2012 (Gender wise)

Master of Business Administration	I & II Semester	III & IV Semester
	66 (23)	53 (14)

(Number of female students indicated in parenthesis'; the total number is inclusive of the number of girl students)

11.8. (b). 8. Enrolment in MBA programmes, 2011 – 2012 (Caste wise)

Dept	MBA I & II					MBA III & IV				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
MBA	41	6	4	15	66	24	8	1	20	53

11.8 (b). 9. Enrolment of Research Scholars for PhD during 2011–2012 (Full time & Part time):

SL. NO.	Branch of Research Study	Gender Break Up		Caste Break Up			Total
		Male	Female	SC	ST	OBC	
1	Biotechnology	4	2	1	-	-	6
2	Chemical Engineering	4	3	-	-	2	7
3	Chemistry	4	2	1	-	-	6
4	Civil Engineering	4	0	-	-	-	4
5	Computer Science & Engineering	5	0	-	-	-	5
6	Electrical Engineering	1	1	2	-	-	2
7	Electronics & Communications Engineering	11	0	-	-	1	11
8	Geology	1	0	-	-	-	1
9	Humanities & Social Sciences	4	1	-	-	-	5
10	Management Studies	1	1	1	-	-	2
11	Mathematics	9	0	-	-	3	9
12	Mechanical Engineering	5	0	-	-	-	5
13	Metallurgical & Materials Engineering	-	-	-	-	-	-
14	Physics	-	-	-	-	-	-
	TOTAL	**53**	**10**	**5**	**0**	**6**	**63**

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

11.8 (c) 1. The details of admission to the B. Tech. programmes during 2011–2012

SI No	State	OP		OPPH		OB		OBPH		SC		SCPH		ST		STPH		FS		READ		TOTAL		ALL TOTAL
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Andhra Pradesh	24	1			6	4			3				5	1							38	6	44
2	Arunachal Pradesh	1																				1	0	1
3	Assam	3												1								4	0	4
4	Bihar	33	3	2		48	3	1		26				3		1				4		118	6	124
5	Chandigarh					1																1	0	1
6	Chattisgarh													1								1	0	1
7	Delhi	3		2						1				1								7	0	7
8	Goa	1																				1	0	1
9	Haryana	1																				1	0	1
10	Jharkhand	1	1			2	2				2			1								4	5	9
11	Kerala									2												2	0	2
12	Madhya Pradesh	5	2											2								7	2	9
13	Maharasthra					1				1												2	0	2
14	Orissa											1		1								2	0	2
15	Rajasthan	18				11	1			1				6	1					1		37	2	39
16	Sikkim	1																				1	0	1
17	Uttarakhand	3																				3	0	3
18	Uttar Pradesh	50	8	1		24	2			2	2									1		78	12	90
19	West Bengal	193	38	5	2	93	10			63	17	1		27	4					1		383	71	454
20	AFGHANISTAN																	7	1			8	0	8
21	Bangladesh																	3	2			3	2	5
22	Bhutan																	2	3			2	3	5
23	Kenia																	2				2	0	2
24	Marititus																	2	1			2	1	3
25	Mangolia																		1			0	1	1
26	Nepal																	3				3	0	3
27	UAE																	1				1	0	1
28	V' Nam																		1			0	1	1
29	Zimbabwe																	1				1	0	1
	TOTAL	337	53	10	2	186	22	1	0	99	21	2	0	48	6	1	0	21	8	8	0	713	112	825

11.8(c) 2. The number of candidates admitted to B. Tech. programmes from rural and urban area during 2011–2012

SI No	State	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	Total	OP	OB	SC	ST	Total	
1	Andhra Pradesh	6	3	1	4	**14**	19	7	2	2	**30**	**44**
2	Arunachal Pradesh					**0**	1				**1**	**1**
3	Assam	1			1	**2**	2				**2**	**4**
4	Bihar	19	32	14	4	**69**	20	23	12		**55**	**124**
5	Chandigarh					**0**		1			**1**	**1**
6	Chattisgarh									1	**1**	**1**
7	Delhi	1				**1**	4		1	1	**6**	**7**
8	Goa					**0**	1				**1**	**1**
9	Haryana					**0**	1				**1**	**1**
10	Jharkhand	2				**2**	2	2	2	1	**7**	**9**
11	Kerala			1		**1**			1		**1**	**2**
12	Madhya Pradesh				2	**2**	7				**7**	**9**
13	Maharasthra			1		**1**		1			**1**	**2**
14	Orissa				1	**1**			1		**1**	**2**
15	Rajasthan	1	7		3	**11**	18	5	1	4	**28**	**39**
16	Sikkim	1				**1**					**0**	**1**
17	Uttarakhand					**0**	3				**3**	**3**
18	Uttar Pradesh	14	12	1		**27**	45	14	4		**63**	**90**
19	West Bengal	30	39	23	16	**108**	208	65	58	15	**346**	**454**
20	Afghanistan	3				**3**	5				**5**	**8**
21	Bangladesh	1				**1**	4				**4**	**5**
22	Bhutan	3				**3**	2				**2**	**5**
23	Kenia	1				**1**	1				**1**	**2**
24	Marititus					**0**	3				**3**	**3**
25	Mangolia	1				**1**					**0**	**1**
26	Nepal	1				**1**	2				**2**	**3**
27	UAE					**0**	1				**1**	**1**
28	V' Nam					**0**	1				**1**	**1**
29	Zimbabwe					**0**	1				**1**	**1**
	TOTAL	85	93	41	31	250	351	118	82	24	575	825

11.8 (c) 3. The ranks (AIR) obtained by the first and the last candidates admitted to B. Tech. programmes during 2011-2012

SI No	State	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andhra Pradesh	7389	27812	17877	32460	91331	112008	80150	170243
2	Arunachal Pradesh	15992							
3	Assam	7061	12911					87620	
4	Bihar	4474	284802	12829	161627	21257	105840	41043	362432
5	Chandigarh			19244					
6	Chattisgarh							102820	
7	Delhi	15254	149070			62742		160942	
8	Goa	11488							
9	Haryana	11902							
10	Jharkhand	7669	8696	13941	30734	59589	89382	70409	
11	Kerala					28539	59363		
12	Madhya Pradesh	10232	26176					148696	
13	Maharasthra			20484		97927			
14	Orissa					305991		127332	
15	Rajasthan	8904	26948	18381	33799	83545	79159	147317	
16	Sikkim	19429							
17	Uttarakhand	10332	16069						
18	Uttar Pradesh	7462	124381	13595	32458	68923	86803		
19	West Bengal	4226	682024	23368	234394	41240	513720	32084	410035

11.8(c) 4. The number of candidates admitted to B. Tech. programmes from various income groups during 2011-2012

Sl No	State	below 6000	Rs.6001 to 12000	Rs.12001 to 18000	Rs.18001 to 24000	Above 24000	TOTAL
1	Andhra Pradesh					44	**44**
2	Arunachal Pradesh					1	**1**
3	Assam				1	3	**4**
4	Bihar	1		1		122	**124**
5	Chandigarh					1	**1**
6	Chattisgarh					1	**1**
7	Delhi					7	**7**
8	Goa					1	**1**
9	Haryana					1	**1**
10	Jharkhand					9	**9**
11	Kerala					2	**2**
12	Madhya Pradesh					9	**9**
13	Maharasthra					2	**2**
14	Orissa					2	**2**
15	Rajasthan					39	**39**
16	Sikkim					1	**1**
17	Uttarakhand					3	**3**
18	Uttar Pradesh			1	2	87	**90**
19	West Bengal		2	2	4	446	**454**
20	AFGHANISTAN					8	**8**
21	Bangladesh					6	**6**
22	Bhutan					5	**5**
23	Kenia					2	**2**
24	Marititus					3	**3**
25	Mangolia					1	**1**
26	Nepal					3	**3**
27	UAE					1	**1**
28	V' Nam					1	**1**
29	Zimbabwe					1	**1**
	TOTAL	**1**	**2**	**4**	**7**	**812**	**826**

11.8 (c) 5. The details of admission to the M. Tech. & M. Sc. programmes during 2011 - 2012

Sl. No.	Name of the Dept.	Specialisations	Total
1	Biotechnology	Biotechnology	16
2	Chemical Engineering	Chemical Engineering	13
3	Chemistry	Corrosion Science & Technology	3
4	Civil Engineering	Structural Engineering	17
5	Computer Application	Software Engineering	19
6	Computer Science & Engg	Information Technology	24
7	Electrical Engineering	Electrical System	16
8	Electronics & Communication Engineering	Tele Communication	22
9	Electronics & Communication Engineering	Microelectronics & VLSI	21
10	Geology (Coordinating Department)	Environmental Science & Technology	17
11	Information Technology	Internet Security	20
12	Mathematics	Operations Research	17
13	Mechanical Engineering	Design & Production Engineering	21
14	Metallurgical &Materials Engineering	Industrial Metallurgy	9
15	Metallurgical & Materials Engineering	Materials Engineering	9
16	Physics	Adv. Materials Science & Tech.	13
17	Chemistry	M.Sc	12
18	Mathematics	M.Sc	6
19	Physic	M.Sc	9
	TOTAL		**283**

Annexure – 11.9(a) Scholarships & Stipends (Under Graduate Courses): 2011-2012

The following scholarship/Financial benefits have been awarded in NIT, Durgapur

SL NO	HEAD OF SCHOLARSHIP	NAME OF THE SCHOLARSHIP	SESSION	Rs.	TOTAL
1	TUITION FEE & OUTHER FEE	BIHAR STATE SCHOLARSHIP	2011-2012	30,100	89
2	STIPEND	GOVT.OF UP	2011-2012	23,900	3
3	TUITION FEE & OUTHER FEE	GOVT .OF AP	2011-2012	35,000	25
4	TUITION FEE & OUTHER FEE	GOVT.OF MP	2011-2012	41,917	3
5	TUITION FEE & OUTHER FEE	GOVT.OF TRIPURA	2011-2012	10,400	1
6	TUITION FEE & OUTHER FEE	GOVT.OF ORISSA	2011-2012	22,660	1
7	TUITION FEE & OUTHER FEE	GOVT.OF JHARKHAND	2011-2012	58,400	2
8	TUITION FEE & OUTHER FEE	O.N.G.C	2011-2012	60,000	4
9	STIPEND	LAKSHADEEP	2011-2012	24,453	1
10	STIPEND	N.T.S.E	2011-2012	6,000	5
11	TUITION FEE & OUTHER FEE	N.H.F.D.C	2011-2012	86,734	1
12	STIPEND	N.T.P.C Limited	2011-2012	18,000	2
13	TUITION FEE & OUTHER FEE	W.B.M.D.F.C	2011-2012	30,300	44
14	STIPEND	ED-Cil	2011-2012	43,200	46
15	STIPEND	I.C.C.R	2011-2012	13,500	41
16	TUITION FEE & OUTHER FEE	TOP CLASS SC	2010-2011	115,000	7
17	TUITION FEE & OUTHER FEE	TOP CLASS SC	2010-2011	1,05,000	2
18	STIPEND	S.N.RAY	2010-2011	12,000	6
19	STIPEND	INDIAN OIL	2010-2011	18,000	9
20	STIPEND	VIVEKSINGH MEMORIEAL	2010-2011		1
22	STIPEND	S.E.I.F	2010-2011	21,200	1
23	STIPEND	N.C.E.R.T	2010-2011	6,000	3
24	STIPEND FOR SC	B.L.C	2010-2011	40,000	4
25	FOR RENEWAL 2012	FULL FREESHIP	2010-2011	35,000	16
26	FOR RENEWAL 2012	HALF FREESHIP	2010-2011	17,500	19
27	FOR RENEWAL 2012	STUDENTS' AID FUND	2010-2011	24,000	21
28	FOR IST YEAR 2012	FULL FREESHIP	2011-2012	35,000	17
29	FOR IST YEAR 2012	HALF FREESHIP	2011-2012	17,500	10
30	FOR IST YEAR 2012	STUDENTS' AID FUND	2011-2012	24,000	8
31	FOR IST YEAR 2012	W.B.M.D.F.C	2011-2012	80,517	20

Annexure – 11.9(b) Awards during 2011-12

Dr. A. K. Datta (CE) was awarded "Man of the year 2012" by American Biographical Institute, Inc, Raleigh, NC 27622-1226

Dr. A. K. Datta (CE) Biography was included in the 30th Pearl Anniversary Edition of WHO'S WHO IN THE WORLD by Marquis Who's Who Publications, NJ, USA

Dr. A. K. Datta (CE) was Member of TOP 100 ENGINEERS 2012 by International Biographical Centre, Cambridge, ENGLAND

Dr. A. K. Datta (CE) and Dr. P. Topdar (CE) had their paper titled "Assessment, Strengthening and Monitoring of Old Bridge Decks in Indian Perspective: A Review" (published in the Civil Engineering Journal of IEI, Vol. 91, May 2010 issue) awarded Suchit Kumar Ghosh Memorial Prize (subject prize) of the 26th Indian Engineering Congress held at Palace Grounds, Bangalore 560 052 on December 16, 2011.

Dr. S. Banerjee (EE) received 'Best Paper of the Oral Presentation session 'Power & Machines Applications-1' in 5th National Power Electronics Conference (NPEC-2011).

Dr. S. Banerjee (EE) received 'Best Paper of the Poster Presentation session' in 5th National Power Electronics Conference (NPEC-2011).

Dr. M.Roy (MS) received best paper award for her paper presentation on Foreign Direct Investment in Agricultural Retailing in India   at the International Conference on Humanities, Economics and Geology, ICHEG-2012, Bangkok, Thailand.

Dr. Avijan Dutta (MS) won the 'Best paper Award' for one of the technical session in the International Conference organised by the Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA.

Dr. Kaushik Mandal (MS) won the 'Best paper Award' for one of the technical session in the International Conference organised by the Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg, PA, USA.

Dr. Anupam De (MS) won the Best Paper Award for the respective technical session in the 2011 *International Conference of Business and Applied Sciences Academy of North America (BAASANA), held at Bloomsburg University of Pennsylvania, Bloomsburg*, PA, USA during June 16-19, 2011 on a research paper titled "Prediction of Corporate Dividend Performances: An Empirical Study on Indian Iron and Steel Companies" authored by De A., Bandyopadhyay G, Chakroboty B N.

Dr. Kaushik Mandal (MS) and C Banerjee, presented by the latter, won the 'Best paper Award' for the paper entitled 'In Search of Performance Gap of Education Service Providers: An Empirical Analysis based on Engineering Education Sector of West Bengal' in the technical session - 3 in the 2nd International Conference on Economics and Finance Research (ICEFR 2012), 2012 organised by IEDRC, Hong Kong held at Chennai, India.

Dr. Anita Pal (M) received BHARAT JYOTI AWARD by India International friendship society on 4th March 2012.

Annexure–11.10 (a) Vocational training

1. CERN, Geneva
2. Durgapur Projects Ltd.
3. Visakhapattanam Steel Plant
4. AREVA T & D India Ltd.
5. Bharat Sanchar Nigam Ltd.
6. Numatigarh Refinary Ltd.
7. Central Mechanical Engineering Research Institute
8. Variable Energy Cyclotron Centre
9. Steel Authority of India Ltd.
10. Alloy Steel Plant
11. Durgapur Steel Plant
12. Durgapur Water Supply Division, P.H.E Directorate
13. Centre for Development Of Advanced Computing
14. National Aerospace Laboratories
15. Global System Technologies Pvt. Ltd.
16. Bharat Heavy Electricals Ltd.
17. Durgapur Chemicals Ltd.
18. ABB
19. Bokaro Steel Plant
20. Indian Farmers Fertilizer Coop Ltd.
21. National Highway Division
22. North Eastern Electric Power Corporation Ltd.
23. Steel Authority of India Ltd., Bhilai Steel Plant
24. Technical Training Centre, CLW
25. Indian Oil Corporation Ltd.
26. IIT, Madras
27. NTPC Ltd.
28. West Bengal Power Development Corporation Ltd., Bandel Thermal Power Station
29. Ashok Leyland
30. Board Of Practical Training, Eastern Region
31. NDPL
32. Tata Power Co. Ltd.
33. Indian Iron & Steel Co. Ltd.
34. South Asian Petrochem. Ltd.
35. Bhaba Atomic Research Centre
36. Damoder Valley Corporation
37. Haldia Petrochemicals Ltd.
38. Mahindra & Mahindra Ltd.
39. KMDA
40. M.N.Dastur
41. I.I.T. Guahati
42. H.P.L
43. I.P.C.L,
44. ESSAR Steel
45. Tata Motors
46. Jessop
47. Maruti Co.
48. GAIL
49. Siemens

Annexure–11.10(b) Placement statistics during 2011 – 2012

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)										MCA	M TECH	MBA
			B.Tech												
			BT	CHE	CIV	CSE	ECE	EE	IT	ME	MME	TOTAL			
1	SAMSUNG(SISO)	01&02.08.2011	-	-	-	13	4	-	6	-	-	23	3	0	-
2	IOCL	02&03.08.2011	-	-	-	-	3	1	-	4	-	8	-	-	-
3	BCH ELECTRIC	05.08.2011	-	-	-	-	-	2	-	1	-	3	-	-	-
4	MU SIGMA	07&08.08.11	5	0	0	1	0	0	2	1	0	9	-	-	-
5	TATA MOTORS	9&10.08.2011	-	-	-	-	4	5	-	17	-	26	-	-	-
6	MARUTI	10.08.2011	-	-	-	-	-	-	-	3	-	3	-	-	-
7	MN DASTUR & CO	10.&.08.2011	-	-	1	-	-	-	-	1	0	2	-	-	-
8	BELZABAR SOFT.	11,12.08.2011	-	-	-	6	-	-	0	-	-	6	-	0	-
9	TELCON	12.08.2011	-	-	-	-	-	-	-	3	-	3	-	-	-
10	AREVA T&D	16.08.2011	-	-	-	-	0	6	-	1	-	7	-	-	-
11	NOVELL	17& 18.08.2011	-	-	-	4	-	-	2	-	-	6	-	0	-
12	SAMSUNG(SIEL)	18.08.2011	-	-	-	2	-	-	3	-	-	5	14	0	-
13	Tata Technologies	23 & 28.8.2011	-	-	-	1	-	-	2	4	-	7	-	-	-
14	SHAPOORJI & PALLONJI	23.08.2011	-	-	4	-	-	-	-	5	-	9	-	-	-
15	TEJAS	25&26.8.2011	-	-	-	4	4	-	0	-	-	8	-	0	-
16	SCHNEIDER ELEC.	26&27.8.2011	-	-	-	1	1	-	1	2	-	5	-	-	-
17	CESC	27.8.2011	-	-	0	-	-	2	-	1	-	3	-	-	-
18	NIVIO	2 &3.9.2011	-	-	-	1	0	-	1	-	-	2	-	2	-
19	TCE	6 &7.9.2011	-	-	2	-	-	2	-	2	-	6	-	0	-
20	COMVIVA	7 &8.9.2011	-	-	-	2	1	-	5	-	-	8	1	0	-
21	MCNALLY BHARAT	9.9.2011	-	-	1	-	-	1	-	3	-	5	-	-	-
22	HERO MOTOR	12,13.09.2011	-	-	-	-	-	1	-	4	-	5	-	-	-
23	MIND TREE	13,14.09.2011	-	-	-	4	1	0	4	-	-	9	-	-	-
24	MAHINDRA & MAHINDRA	13,14.09.2011	-	-	-	-	-	0	-	6	2	8	-	0	-
25	POLARIS NETWORK	16.09.2011	-	-	-	0	2	-	-	-	-	2	-	2	-
26	FUTURES FIRST	17.09.2011	1	0	0	0	1	0	1	0	0	3	-	-	-
27	TRF LTD	19.09.2011	-	-	-	-	-	-	-	4	-	4	-	2	-
28	3D PLM SOFT	21,22.09.2011	-	-	-	-	-	-	-	2	0	2	-	-	-
29	UNISYS GLOBAL	22.09.2011	-	-	-	7	1	-	-	-	-	8	-	-	-
30	SAINT GOBAIN	22,23.09.2011	-	0	0	-	-	0	-	0	-	0	-	-	-
31	TCS	23,26,27.9.2011	4	1	4	14	20	7	11	1	1	63	23	25	-
32	AMDOCS	28.9.2011	-	-	-	1	2	-	1	-	-	4	0	0	-
33	MICROSOFT	29,30.9.2011	-	-	-	0	-	-	3	-	-	3	-	-	-
34	L&T ECC	16, .9.2011	-	-	0	-	-	1	-	1	-	2	-	-	-
35	DCPL	19.10.2011	-	-	2	-	-	-	-	-	-	3	-	-	-
36	TATA TINPLATE	19,20.10.2011	-	2	-	-	1	0	-	1	1	5	-	-	-
37	L&T	20.10.2011	-	-	1	-	-	2	-	3	-	6	-	-	-
38	NMDC	21,22.10.2011	-	-	5	-	-	8	-	7	5	25	-	-	-
39	ITC Infotech	24.10.2011	-	-	-	2	4	-	2	-	-	8	1	-	-
40	Balmer & Lawrie	28.10.2011	-	1	-	-	-	-	1	-	-	2	-	-	-
41	JSL	02, 03.11.2011	-	-	-	-	1	2	-	1	2	6	-	-	-
42	HNGIL	04.11.2011	-	-	-	-	-	1	-	2	-	3	-	-	-
43	Atos india	08.11.2011	-	-	-	2	6	-	3	-	-	11	2	2	-
44	HINDALCO	08.11.2011	-	2	0	-	2	1	-	2	2	9	-	-	-
45	VERIZON	09.11.2011	-	-	-	2	2	0	1	-	-	5	1	-	-
46	TIL	09.11.2011	-	-	-	-	-	-	-	2	-	2	-	-	-
47	ACC	09.11.2011	-	4	-	-	-	1	-	0	-	5	-	-	-

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)										MCA	MTECH	MBA
			B.Tech												
			BT	CHE	CIV	CSE	ECE	EE	IT	ME	MME	TOTAL			
48	AKASH	14.11.2011	0	0	0	0	0	0	0	0	0	0	-	2	-
49	HONDA	15.11.2011	-	-	-	-	-	-	-	3	1	4	-	-	-
50	HCL TECH	17.11.2011	-	-	-	4	6	-	10	-	-	20	2	2	-
51	Simplex Infrastructure	01.12.2011	-	-	5	-	-	-	-	-	-	5	-	-	-
52	Indian Navy	03.12.2011	-	-	-	-	-	-	-	-	-	NA	-	-	-
53	JSW STEEL	05.12.2011	-	3	-	-	-	3	-	3	7	16	-	-	-
54	IBM	08-9.12.2011	16	1	-	2	1	-	-	-	1	21	0	6	-
55	SIEMENS	09.12.2011	-	-	-	-	1	3	-	1	-	5	-	-	-
56	COAL INDIA	09.12.2011	-	-	-	-	-	-	-	-	-	-	-	-	7
57	PRADAN	10.12.2011	2	-	-	-	-	1	-	-	-	3	-	1	4
58	HALDIA PETROCHEM	12,13.12.2011	-	4	NA	-	0	1	-	0	-	5	-	-	-
59	WIPRO	13.12.2011	10	1	1	1	3	1	2	0	3	22	3	10	-
60	LAFARGE	14.12.2011	-	0	-	-	-	-	-	1	-	1	-	-	-
61	EMC POWER	15.12.2011	-	-	3	-	-	3	-	2	-	8	-	1	-
62	SAPIENT	16.12.2011	-	-	-	3	2	-	3	-	-	8	-	-	-
63	RANCORE	19.12.2011	-	-	-	3	-	-	3	-	-	6	1	-	-
64	SUBROS	10. 01.2012	-	-	-	-	1	2	-	0	4	7	-	-	-
65	MATIX GROUP	11. 01.2012	-	5	-	-	0	0	-	1	-	6	-	-	-
66	EPCOS	11. 01.2012	-	-	-	-	0	3	-	0	-	3	-	-	-
67	IDEA CELLUAR	17.01.2012	-	-	-	-	3	-	-	-	-	3	-	-	-
68	PIS DURGAUR	17.01.2012	-	-	-	-	-	-	-	-	-	-	-	-	1
69	DVC	24.01.2012	-	-	-	1	2	6	1	5	-	15	-	-	-
70	ERICSSON	24&25..01.2012	-	-	-	3	5	-	2	-	-	10	-	2	-
71	Afcons	03.02.2012	-	-	3	-	0	-	-	1	-	4	-	1	-
72	Hal	06 &07.02.2012	-	-	-	-	9	-	-	8	-	17	-	-	-
73	C-DOT	09.02.2012	-	-	-	3	1	-	-	-	-	4	-	1	-
74	MIDHANI	10 11.02.2012	-	0	0	0	-	0	-	0	1	1	-	-	1
75	PRAXAIR	13.02.2012	-	3	-	-	-	-	-	-	-	3	-	-	-
76	STONE INDIA	18.2.2012	-	-	-	-	-	-	-	2	-	2	-	-	-
77	TATA PROJECTS LTD	20,21,22.2.12	-	-	1	-	-	1	-	-	-	2	-	-	-
78	MOTT MCDONALD	23.02.2012	-	-	1	-	-	1	-	1	-	3	-	-	-
79	ALSTOM	23.2.2012	-	-	-	-	-	-	-	2	-	2	-	-	-
80	ITD CEMENTATION	27.2.2012	-	-	4	-	-	-	-	-	-	4	-	1	-
81	ORACLE FSS		-	2	1	3	0	1	1	0	-	6	-	-	-
82	EXIDE INDUSTRIES	16.3.2012	-	4	-	-	-	2	-	0	3	9	-	-	-
83	VISA STEEL	21.03.2012	-	-	-	-	-	-	-	-	-	-	-	-	-
84	MJUNCTION SERVICES LIMITED	22& 23.03.2012	-	-	-	1	1	-	1	-	1	4	-	-	1
85	SPML Energy Limited	23.03.2012	-	-	1	-	-	2	-	0	-	3	-	-	-
86	WBSEDCL	09.04.2012	-	-	-	-	-	-	-	-	-	NA	-	-	-
87	VIZAG	09.04.2012	-	0	1	-	-	5	-	3	1	10	-	-	-
88	Sankalp Semiconductor	20.04.2012										NA			-
89	HUL		-	2	-	-	-	2	-	1	-	5	-	-	-
90	GAMMON INDIA	09.12.2011	-	-	8	-	-	-	-	-	-	8	-	-	-
91	DIRECTI	(PPO)	-	-	-	1	-	-	-	-	-	1	-	-	-
92	AMAZON	(PPO)	-	-	-	1	-	-	-	-	-	1	-	-	-
93	TATA STEEL	(PPO)	-	-	-	-	-	2	-	1	-	3	-	-	-
	Strength		51	40	47	74	78	73	63	112	52	590	59	128	60
	Total Placed		38	29	43	73	67	62	57	96	33	498	50	59	14
	Percentage Placed		74.51	72.50	91.49	98.65	85.90	84.93	90.48	85.71	63.46	84.41	84.75	46.09	23.33
	Remaining		13	11	4	1	11	11	6	16	19	92	9	69	46
	Total Jobs Offered		38	33	49	93	98	81	69	119	35	615	51	59	14
	Double Jobs		0	4	6	20	31	19	12	23	2	117	1	0	0

Summary
Total number of students placed : 621 (B.Tech- 498)
Total number of second job   : 118 (B.Tech- 117)

Annexure – 11.11 (a) Non-Plan grant

Non-Plan Grant received in 2011-2012 – Rs. 4200.00 Lakhs.

Annexure – 11.11(b)   Plan grant

Plan (General) Grant received in 2011-2012   – Rs. 4600.00 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 three years

(Rupees in Lakhs)

Plan head Expenditure		Non-Plan head Expenditure	
2008-09	463.64	2008-09	3067.10
2009-10	4700.08	2009-10	4713.64
2010-11	3584.70	2010-11	6000.89

Plan head Expenditure in 2011-12 (unaudited)   – Rs 4474.32 Lakhs
Non-Plan head Expenditure in 2011-12 (unaudited)   – Rs 6254.89 Lakhs (including depreciation)

Annexure 11.12(a) Construction work completed during the year 2011-12(Plan grant project)

Sl. No.	Name of the Work	Cost of the Work (in Rs.)
1	Widening of Roads & Construction of Drains etc.	6,69,24,773 (DAPL, Kolkata)
2	Renovation & Extension of existing Medical Unit	2,01,36,744 (NBCC, Kolkata)

Annexure 11.12(b) Construction work in progress during the year 2011-12(Plan grant projects)

Sl. No.	Name of the Work	Cost of the Work (in Rs.)	Status of the Work
1	Installation of transmission line from DVC to NIT including receiving station, substations & up gradation of existing substations	6,94,82,837	93 % work completed (CPWD, Kolkata & DVC, Durgapur)
2	Construction of Chemistry Laboratory-cum-Biotechnology Department (Oversight committee)	15,09,26,000	45 % work completed (CPWD, Kolkata)
3	740 seated Boys' Hostel (Oversight committee)	26,89,94,000	95 % work completed (CPWD, Kolkata)
4	Academic Block (Oversight committee)	43,49,01,000	60 % work completed (CPWD, Kolkata)
5	VIP Guest House	17,99,67,000	35 % work completed (CPWD, Kolkata)
6	G+8 Faculty Accommodation	22,56,69,789	97 % work completed (NBCC, Kolkata)
7	Construction of Market Complex	8,49,53,953	95 % work completed (NBCC, Kolkata)
8	Capacity expansion of Hostel No.1	4,90,55,238	98 % work completed (DAPL, Kolkata)
9	Capacity expansion of Hostel No.2	4,90,55,238	85 % work completed (DAPL, Kolkata)
10	Capacity expansion of Hostel No.5	4,41,09,689	83 % work completed (DAPL, Kolkata)
11	1500 capacity Auditorium	26,78,46,000	Site preparation under progress (CPWD, Kolkata)
12	International Students Hostel	18,00,00,000	Site preparation under progress (NBCC, Kolkata)
13	Renovation of Academic Building	27,11,27,578	Finalisation of L1 Bidder under progress (NBCC, Kolkata)
14	Underground Water Reservoir	85,68,495	20 % work completed (DAPL, Kolkata)
15	Interior decoration of S.N.Ray Memorial Building	2,00,00,000 (Approx.)	Design & Estimate under progress (NID, Ahmedabad)
16	1250 seated Boys' Hostel	--	Requisition placed with CPWD, Kolkata
17	300 seated Girls' Hostel	_	Requisition placed with CPWD, Kolkata

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
Chemical Engineering	Heat Transfer Lab, Mass Transfer Lab, Fluid Flow Lab, Mechanical Operations Lab, Environmental and Membrane Technology Lab, Computing Lab, Energy 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
Chemistry	Junior Chemistry Laboratory, Senior Chemistry Laboratory, Organic and Inorganic Synthetic Research Laboratory, Environmental and Corrosion Laboratory, Molecular Modelling Laboratory
Civil Engineering	PG Structural Laboratory, Concrete and Structure Laboratory, Highway Engineering Laboratory, Surveying Laboratory, Environmental Engineering Laboratory, Soil Mechanics Laboratory, Water Resources Engineering Laboratory, Mobile bed experimental set up for study of erosion around an island, Exciter and FFT 173 analyser for Earthquake Laboratory
Computer Applications	Advanced Networking Laboratory, Advanced Software Engineering Laboratory, DBMS Laboratory(Shared with Dept. of CSE), Hardware Laboratory (Shared with Dept. of CSE), Internet Laboratory(Shared with Dept. of CSE), Programming Laboratory (Shared with Dept. of CSE).
Computer Science & Engg.	Project Laboratory, Programming Laboratory-I, Programming Laboratory–II, DBMS Laboratory, Faculty Laboratory, Hardware Laboratory, Networking Laboratory, Computer Vision and Graphics Laboratory
Electrical Engineering	Electrical Machines Laboratory, Electrical Machines & Drives Laboratory, Power System Protection Laboratory, Power System Research Laboratory, Control Systems Laboratory, Power Electronics Laboratory, Microprocessor and Micro-controller Laboratory, Energy Systems Laboratory, Computing laboratory, Circuits and Measurements Laboratory, Printed Circuit Board Laboratory, Power Audit Laboratory, High Voltage Laboratory, Instrumentation Laboratory, FACTS Laboratory
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, Antenna Lab, Advanced Communication Lab (for PG)
Geology	Environmental Laboratory, Research Laboratory, Computer Laboratory, Geology Laboratory
Humanities & Social Sciences	Language Laboratory
Information Technology	Digital Systems and Microprocessor Laboratory, Communication Engineering Laboratory, Application Laboratory, Network and Systems Laboratory, Project and Research Laboratory.
Mathematics	Computer Laboratory
Mechanical Engineering	Automobile Laboratory, CAD /CAM Laboratory, Control System Laboratory, Fluid Mechanics & Hydraulic Machines Laboratory, Heat Power Laboratory, Machine Computation & Computer Graphics Laboratory, Manufacturing Science Laboratory, Metrology Laboratory, 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.
Physics	Nano Science Laboratory, Materials Science Laboratory, X-ray Diffraction Laboratory, Low Temperature Characterization Laboratory, Laser & Optoelectronics Laboratory, Electronics Laboratory, Carbon Nanotechnology Laboratory
Central Instrumentation Facility	Scanning Electron Microscope with EDS, X-Ray Diffractometer, Nd:YAG Laser Unit, Spectrum Analyzer

Annexure-11.14 Technical Education Quality Improvement Programme (TEQIP)

The Institute successfully participated in the World Bank assisted TEQIP (phase-I) as a lead institution, An Impact Assessment Survey sponsored by NPIU, Noida placed NIT Durgapur at the top among the NITs and eighth among 127 participating institutions in the country.

It has also been selected in TEQIP-II and has inititated activities in the programme. A large number of equipment has been procured to support the postgraduate and research programmes. A number of activities have been planned for improvement in quality of technical education.

Annexure-11.15   Alumni

NIT Durgapur Alumni Association (NITDAA) was formed in 2002 at the behest of the Board of Governors, RECD. Since then, NITDAA has spread its wings all over the world – setting up Chapters in USA (three); UK; UAE, apart from various cities and towns in the country. It is closely associated with the development of the Institute. It has instituted Prof S.N. Ray Scholarship for eight students per year. It has extended financial assistance to students for internship abroad. In order to have close relationship with the present students, NITDAA has contributed to the students' technical and cultural programmes as well.

Annexure-11.16 Other relevant information

Annexure 11.16 (a): Books authored during 2011-12

Department of Biotechnology

Author	Title of the book	Publisher	Date of Publication
Das Saha, P.	Enzymatic Synthesis of the Fruit Flavor Using Lipase	LAP LAMBERT Academic Publishing	Aug, 2011
Das Saha P., Roy, V.	Estimation of Water Quality of River Hooghly by Water Quality Index	LAP LAMBERT Academic Publishing	July, 2011
Das Saha, P.	Industrial Dairy Whey Treatment Using an Integrated Treatment Module	LAP LAMBERT Academic Publishing	Jan. 2012
Das Saha, P.	Water Quality Analysis Using Water Quality Index Method	LAP LAMBERT Academic Publishing	July, 2011

Department of Computer Applications

Author	Title of the book	Publisher	Date of Publication
Changder, S.	Text Steganography Through Different Indian Languages	LAP LAMBERT Academic Publishing	Nov, 2011

Department of Electrical Engineering

Author	Title of the book	Publisher	Date of Publication
De, N.K., Dutta, S.K	Electric Machines and Electric Drives Problems with Solutions	PHI Learning Private Limited New Delhi-110001	January, 2012

Department of Electronics & Communication Engineering

Author	Title of the book	Publisher	Date of Publication
Chandra, A.	Diversity Combining for Digital Signals in Wireless Fading Channels: Analysis and Simulation of Error Performance	LAP LAMBERT Academic Publishing	May, 2011
Dhar Roy, S.	Cognitive Radio CDMA Networking with Radio Resource Management: Performance of CR-CDMA Networks with Efficient Radio Resource Management Schemes,	LAP LAMBERT Academic Publishing	August, 2011
Dhar Roy, S.	Analysis and Design of Handoff Algorithms	LAP LAMBERT Academic Publishing	September, 2011

Department of Humanities & Social Sciences

Author	Title of the book	Publisher	Date of Publication
Sengupta, P. P. (ed.) Chakraborty B. N. (ed)	Contemporary Issues in Business and Information Management, Vol. I	Allied Publishers Pvt. Ltd., New Delhi	January 09, 2012

Department of Management Studies

Author	Title of the book	Publisher	Date of Publication
G Bandopadhyay (ed.) Mondal K. (ed) Banerjee N. (ed) De A. (ed)	Contemporary Issues in Business and Information Management, Vol. I	Allied Publishers Pvt. Ltd., New Delhi	January 09, 2012

Department of Mathematics

Authors/Editors	Title of the book	Publisher	Date of Publication
Kar, S., Basu, K.	Workshop Proceedings of "Advances in Computational Optimization and Applications 2010"	Narosa Publishing House	2012
Kar, S.	Workshop Proceedings of "Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications 2011"	Local Press	2011
Pal, A.	Some Sequential and Parallel Algorithms on Intersection Graphs	Lambert Academic Publisher, Germany	2011

Department of Physics

Author	Title of the book	Publisher	Date of Publication
Sahoo, S.	Bigyan Bibhaba	The Book Point, Bhubaneswar	January, 2012

Annexure 11.15 (b) 1. Reviews of manuscripts for publication in journals during 2011-12

Department of Biotechnology

Reviewer	Name of the Journal	Publisher	Date
Das, P.	Chemical Engineering Journal	Elsevier Publication	February 9, 2012
Das, P.	Environmental Progress & Sustainable Energy	AIChE Journal	January, 2012; March, 2012
Das, P.	Journal of Environmental Management	Elsevier Publication	December, 2011; February, 2012
Das, P.	Environmental Science & Technology	ACS Publication	March 20,2012
Das, P.	Bioremediation Journal	Taylor & Francis	March 2,2012
Das, P.	Water, Air, Soil Pollution	Springer	January 2, 2012
Das, P.	Desalination & Water Treatment	Taylor & Francis	October 17, 0211
Das, P.	International Journal of Environmental and Engineering	Inderscience Publication	October19, 2011
Das, P.	Journal of Environmental Engineering	ACS Publication	August 8, 2011
Das, P.	Journal of the Taiwan Institute of Chemical Engineering	Elsevier Publication	September 9, 2011
Das, P.	Ecological Engineering	Elsevier Publication	November 24, 2011
Das, P.	International Journal of Water Resources and Environmental Engineering	Academic Journal	May, 2011
Das, P.	Separation Science & Technology	Taylor & Francis	May, 2011
Dutta, D.	World Journal of Microbiology and Biotechnology	Springer	September 01, 2011
Dutta, D.	Bioprocess and Biosystems Engineering	Springer	March13, 2012

Department of Chemical Engineering

Reviewer	Name of the Journal	Publisher	Date
Dutta, S.	Chemical Engineering Journal	Elsevier	August, 2011
Dutta, S.	CLEAN – Soil, Air, Water	WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim	March, 2011
Dutta, S.	EnvironmentalEngineering and ManagementJournal	Technical University of IASI	April, 2011
Gupta, P.	Energy & Fuels	ACS, Paragon Press	August, 2011
Gupta, P.	Journal of Analytical & Applied Pyrolysis	Elsevier Science	August, 2011
Gupta, P.	Bioresources	North Carolina State University	April, 2011
Gupta, P.	Journal of Analytical & Applied Pyrolysis	Elsevier Science	February, 2012
Gupta, P.	International Journal of Heat and Mass Transfer	Elsevier Science	February, 2012

Reviewer	Name of the Journal	Publisher	Date
Narayanan, C.M.	Journal of Chemical Engineering and Material Science	Academic Journals,USA	May 2011, August, 2011
Narayanan, C.M.	Energy Conversion and Management	Elsevier	June 2011, September 2011
Narayanan, C.M.	Journal of Petroleum and Gas Engineering	Academic Journals, USA	November 2011
Pal, P.	Water Environment Research	Water Environment Federation USA	April 01,2011
Pal, P.	Journal of Membrane Science	Elsevier Science	April, 2011
Pal, P.	Journal of Membrane Science	Elsevier Science	May, 2011
Pal, P.	Journal of Membrane Science	Elsevier Science	April, 2011
Pal, P.	Water Research	Elsevier Science	April, 2011
Pal, P.	Water Research	Elsevier Science	May, 2011
Pal, P.	Water Environment Research	Water Environment Federation USA	May06, 2011
Pal, P.	Journal of Membrane Science	Elsevier Science	August 12, 2011
Pal, P.	Journal of Membrane Science	Elsevier Science	Sept 17, 2011
Pal, P.	Desalination & Water Treatment	European Desalination Society	September, 2011
Pal, P.	Water Research	Elsevier Science	October 15, 2011
Pal, P.	Desalination & Water Treatment	European Desalination Society	November 2, 2011
Pal, P.	Chemical Engineering & Technology	Wiley	January 22, 2012
Pal, P.	Journal of Membrane Science	Elsevier Science	February 23, 2012

Department of Chemistry

Reviewer	Name of the Journal	Publisher	Date
Saha, R.N.	Environmental Monitoring and assessment	Springer	January 31, 2012

Department of Civil Engineering

Reviewer	Name of the Journal	Publisher	Date
Das, D.	IEEE Transactions on Systems, Man and Cybernetics, Part A	IEEE (Institute of Electrical and Electronics Engineers)	March, 2011

Department of Computer Applications

Reviewer	Name of the Journal	Publisher	Date
Changder, S.	Journal of Systems and Software	Elsevier	March, 2012
Choudhury, P.	International Journal of Computer Theory and Engineering	IACSIT	April, 2011

Department of Electrical Engineering

Reviewer	Name of the Journal	Publisher	Date
Acharjee, P.	International Journal of Electrical Power & Energy Systems	Elsevier	May, 2011, October, 2011
Acharjee, P.	Electrical Engineering Journal	Springer	July, 2011
Acharjee, P.	Applied Soft Computing Technique	Elsevier	August, 2011, December, 2011
Acharjee, P.	Electrical Power System Research	Elsevier	September, 2011, November, 2011
Acharjee, P.	IET Generation, Transmission & Distribution	IET	October, 2011
Acharjee, P.	IEEE power Delivery	IEEE	December, 2011, February, 2012
Banerjee, S.	IEEE Trans. on Power Electronics	IEEE	August 17, 2011
Banerjee, S.	Electrical Power Components and Systems	Taylor & Francis	September, 2011
Bhowmik, P.S.	Electric Power Components and Systems	Taylor & Francis	March 15, 2012
Bhowmik, P.S.	International Journal of Electrical Power & Energy Systems	Elsevier	June 06, 2011
Ghosh, S.	International Journal of Numerical Modelling: Electronic Networks, Devices &Fields	John Wiley	October, 2011
Ghosh, S.	Inder Science	Inderscience	February, 2012
Ghoshal, S.P.	International Journal of Electrical Power & Energy Systems	Elsevier	May 30, 2011
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	July 04, 2011 (for Paper 1)
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	July 04, 2011 (for Paper 2)
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	August 04, 2011
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	November 07, 2011 (for Paper 1)
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	November 07, 2011 (for Paper 2)
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	January 15, 2012
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	March15, 2012 (for Paper 1)
Ghoshal, S.P	International Journal of Electrical Power & Energy Systems	Elsevier	March15, 2012 (for Paper 2)
Ghoshal, S.P	International Journal of Information Technology & Decision Making	World Scientific	January 15, 2012
Ghoshal, S.P	International Journal of Information Technology & Decision Making	World Scientific	Mar., 2012
Ghoshal, S.P	Europian Transactions on Electrical Power	John Wiley	July 05, 2011
Ghoshal, S.P	Europian Transactions on Electrical Power	John Wiley	March 22, 2012

Reviewer	Name of the Journal	Publisher	Date
Ghoshal, S.P	Journal of Engineering and Computer Innovation	Academic Journals	January 04, 2012
Ghoshal, S.P	International Journal of Physical Sciences	Academic Journals	September 08, 2011
Mahato, S. N.	Electric Power Components and Systems	Taylor & Francis	May, 2011
Mahato, S. N.	International Journal of Sustainable Energy	Taylor & Francis	May, 2011
Mahato, S. N.	International Journal of Electrical Power & Energy Systems	Elsevier	May, 2011
Mahato, S. N.	International Journal of Electrical Power & Energy Systems	Elsevier	November, 2011
Saha, T. K.	IEEE Transaction on Energy Conversion	IEEE	September14, 2011
Saha, T. K.	IEEE Transaction on Industrial Electronics	IEEE	November 04, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	July 26, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	August 05, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	August 30, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	September 06, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	November 14, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	December 14, 2011
Saha, T. K.	IEEE Transaction on Sustainable Energy	IEEE	January 13, 2012

Department of Electronics and Communication Engineering

Reviewer	Name of the Journal	Publisher	Date
Chandra, A.	IET Communications IET Networks	IET IET	February, 2012 March, 2012
Chandra, A.	International Journal of Communication Systems	Wiley	August, 2011
Chandra, A.	Computer and Electrical Engineering	Elsevier	April, 2011
Chandra, A.	International Journal of Electronics	Taylor & Francis	September, 2011
Dhar Roy, S.	International Journal of Communication Systems	Wiley	May 13, 2011 February 13, 2012
Dhar Roy, S.	Electronics Letters	IET, UK	October 10, 2011 December 30, 2011
Dhar Roy, S.	IET Communications	IET, UK	January 05., 2012
Dhar Roy, S.	International Journal of Electronics	Taylor & Francis	October 17, 2011 December 22, 2011
Ghatak, R.	PIER , Nonlinear Dynamics and Chaos, AEUE International journal of Electronics and Communication	Springer, Elsevier	2011-12
Kundu, S.	IEEE Transactions on Aerospace and Electronic Systems	IEEE	Feb., 2012
Kundu, S.	Wireless Netrworks	Springer	July, 2011
Mahapatra, R.	Journal of The Electrochemical Society	The Electrochemical Society	February, 2012

Department of Humanities & Social Sciences

Reviewer	Name of the Journal	Publisher	Date
Sengupta, P.P	Universal Journal of Marketing and Business Research	http://universalresearchjournal.org	December, 2011
Sengupta, P.P.	Universal Journal of Marketing and Business Research	http://universalresearchjournal.org	January, 2012

Reviewer	Name of the Journal	Publisher	Date
Sengupta, P.P.	Universal Journal of Marketing and Business Research	http://universalresearchjournal.org	February, 2012
Sengupta, P.P.	Universal Journal of Marketing and Business Research	http://universalresearchjournal.org	March, 2012
Sengupta, P.P.	Journal of Research in International Business and Management	www.interresearchjournals.org	February, 2012
Sengupta, P.P.	Journal of Research in International Business and Management	www.interresearchjournals.org	March, 2012
Sengupta, P.P.	Journal of Research in Economics and International Finance	http://interresearchjournals.org (jreif)	February, 2012
Sengupta, P.P.	Journal of Research in Economics and International Finance	http://interresearchjournals.org (jreif)	February, 2012
Sengupta, P.P.	Journal of Research in Economics and International Finance	http://interresearchjournals.org (jreif)	February, 2012
Sengupta, P.P.	Journal of Research in Economics and International Finance 12	http://interresearchjournals.org (jreif)	March, 2012
Sengupta, P.P.	Educational Research	www.interresearchjournals.org	February, 2012

Department of Mathematics

Reviewer	Name of the Journal	Publisher	Date
Pal. P	Journal of Fluid Mechanics	Cambridge University Press	January, 2012
Sarkar (Mondal), S.	Mathematical and Computer Modelling	Elsevier	May, 2011

Department of Mechanical Engineering

Reviewer	Name of the Journal	Publisher	Date
Hui N. B.	IEEE Transactions on Mechatronics	IEEE	August 2011
Hui N. B.	IEEE Transactions on Mechatronics	IEEE	December 2011
Hui N. B.	IEEE Transactions on Mechatronics	IEEE	September 2011
Hui N. B.	International Journal of Advances in Vibration Engineering	International Federation for the Promotion of Mechanism and Machine Science or IFToMM	September 2011

Department of Metallurgical & Materials Engineering

Reviewer	Name of the Journal	Publisher	Date
Bera, S.	Bulletin of Materials Science	Springer	May 03, 2011
Bera, S.	Metallurgical and Materials Transactions A	ASM International	December 03, 2011
Bera, S.	Bulletin of Materials Science	Springer	January 30, 2012
Ghosh, M. M.	Journal of Nanoparticle Research	Springer	April , 2012
Maity, J.	Steel Research International	Germany WILEY-VCH Verlag	December 12, 2011
Maity, J.	Journal of Materials Engineering and Performance,	ASM international, USA	March 12, 2012

Department of Physics

Reviewer	Name of the Journal	Publisher	Date
Chakraborty, A. K.	Nanotechnology	IOP, UK	October, 2011
Chakraborty, A. K.	Journal of Materials Chemistry	RSC, UK	January, 2012
Chakraborty, A. K.	Journal of Nanoparticle Research	Springer	February, 2012
Kumbhakar, P.	J. Alloys and Compounds	Elsevier	May, 2011, September, 2011, November, 2011, January, 2012,
Kumbhakar, P.	Nano Life	World Scientific	April, 2011
Kumbhakar, P.	Superlattice and Microstructures	Elsevier	January, 2012
Kumbhakar, P.	Optics Letters	Optical Society of America	November, 2011, January, 2012
Kumbhakar, P.	Chinese Optics Letters	Chinese Laser Press, Spons.by the Chin. Opt. Soc. and Shanghai Institute of Optics and Fine Mechanics, Chin. Acad. of Sc.	March, 2011
Kumbhakar, P.	International J. of Nanoparticles	Inderscience Publishers	May, 2011
Kumbhakar, P.	Materials Letters	Elsevier	March, 2012
Meikap, A.K.	Journal of Nanotechnology	Hindawi Pub. Corp.	April, 2011
Meikap, A.K.	Polymer Engineering Science	John Wiley & Sons.	June, 2011
Meikap, A.K.	Journalof of Aplied Polymer Science	John Wiley & Sons.	July, 2011
Meikap, A.K.	Polymer Engineering Science	John Wiley & Sons.	August, 2011
Meikap, A.K.	The European Physical Journal B	Springer	July, 2011
Meikap, A.K.	Journal of Nanotechnology	Hindawi Pub. Corp.	August, 2011
Meikap, A.K.	eXPRESS Polymer Letters	Budapest University of Technology	August, 2011
Meikap, A.K.	Journalof of Aplied Polymer Science	John Wiley & Sons.	September, 2011
Meikap, A.K.	Physica B	Elsevier	November, 2011
Meikap, A.K.	Journal of Modern Physics	Scientific Research Publishing	December, 2011
Meikap, A.K.	Catalysis Science & Technology	The Royal Society of Chemistry	December, 2011
Meikap, A.K.	Polymer Engineering Science	John Wiley & Sons.	January, 2012
Meikap, A.K.	Materials Characterization	Elsevier	January, 2012
Meikap, A.K.	Journal of Materials Chemistry	The Royal Society of Chemistry.	February, 2012
Sahoo S.	Europhysics Letters	IOP Publishing	November, 2011

Annexure 11.16 (b).ii: Reviews of books during 2011-12

Department of Chemical Engineering

Reviewer	Name and author of the book	Publisher	Date
Halder, G. N.	Chemical Engg Thermodynamics	Tata-McGraw Hill	August, 2011
Halder, G. N.	Process Heat Transfer	Tata-McGraw Hill	January, 2012

Department of Civil Engineering

Reviewer	Name and author of the book	Publisher	Date
Dwivedi, V.K.	Encyclopaedia on Lakes – Indian Lakes	Springer - ELR	Summer and Winter 2011

Department of Electrical Engineering

Reviewer	Name and author of the book	Publisher	Date
Acharjee, P.	Soft Computing	PEARSON Publisher	May-June 2011
Mahato, S. N.	Electric Machines & Electromechanics	Tata McGraw Hill	June, 2011

Department of Electronics and Communication Engineering

Reviewer	Name and author of the book	Publisher	Date
Dhar Roy, S.	Analog& Digital Communication	Cengage Learning, India	April 21, 2012

Department of Mathematics

Reviewer	Name and author of the book	Publisher	Date
Dey, L. K.	Engineering Mathematics	Cengage Learning	April, 2012
Kar, S.	Engineering Mathematics	PearsonIndiaLtd.	December, 2011

Annexure 11.16 (c). Participation in National Committees/ visits during 2011-20112

Department of Biotechnology

Name of the faculty	Name of the committee	Place of visit	Date
Chattopadhyay S.	Task Force, DBT, Govt. of India	DBT, New Delhi	2011
Chattopadhyay S.	Task Force, Tea Board, Govt. of India	Tea Board, Kolkata	2011
Chattopadhyay S.	Member of the Sectional Committee, Indian National Science Academy (INSA), new Delhi	INSA, New Delhi	2011
Chattopadhyay S.	DBT-CREST, Govt. of India	DBT, New Delhi	2012

Department of Chemical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Pal P.	Ministry of Defence Scientist Selection Committee	I.I.T. Kharagpur	January 21, 2012

Department of Electrical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Roy N.K.	National Mission Project on Education through ICT MHRD, Government of India	IIT, Kharagpur	Sept 2011
Roy N.K.	Delphi Expert, RReG-2010, conducted by IIPA, Delhi and IIT, Delhi	Delhi	May 2011

Department of Management Studies

Name of the faculty	Name of the committee	Place of visit	Date
Dutta A.	Member of the committee constituted vide order no: AICTE/DD(A)/Finishing School/2012 dated:21.02.2012 to suggest measures to redesign the programme of Finishing School throughout the country.:	AICTE Head Quarters, New Delhi	February 24, 2012

Department of Mechanical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Basak I.	Visiting team of National Board of Accreditation	NC College of Engineering Ishrana, Panipat, HR	Sept 9-11, 2011
		KSRM College of Engineering, Kadapa, AP	Dec 30, 2011- Jan 01, 2012

Annexure 11.16 (d): Invited Examiners/ Paper-setters/ Board of Studies during 2011-12

Department of Biotechnology

Name of the faculty	Name of the examination	University/Institute	Date
Chattopadhyay S.	CSIR-UGC JRF Exam	CSIR Institute, Goa	2011

Department of Chemical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Dutta S.	External Examiner for Ph. D. program	Department of Printing Engineering, Jadavpur University	October, 2011
Gupta P.	External Examiner for M. Tech. Thesis & Viva voce	Department of Chemical Engg, IIT Kharagpur	May 08, 2011
Gupta P.	Member of Expert Committee for revision of curriculum	Department of Chemical Engg, NIT Agartala	October 24-25, 2011
Narayanan C.M.	Paper Setter, AMIE Examination	The Institution of Engineers (India	August, 2011
Narayanan C.M.	Paper Setter, MSc (Tech)	Cochin University of Science and Technology	September, 2011

Department of Chemistry

Name of the faculty	Name of the examination	University/Institute	Date
Chakrabarty J.	Practical Examiner of Integrated M. Sc.	Visva-Vharati University	July 16-17, 2011 & January 19-20,2012
Panja S.S.	External examiner for M.Sc practical examination	Burdwan University	July 15,19 & 21, 2011
Panja S.S.	External examiner for M.Sc practical examination	Burdwan University	January 25, 2012
Saha R. N.	M.Sc., Semester-I	Burdwan University	Feb. 3, 7 & 9, 2012
Saha R. N.	INSPIRE INTERNSHIP-2011	Burdwan University	July 14, 2011
Saha R. N.	M.Sc., Semester-I, 2011	Visva-Bharati University	Dec. 19, 2011

Department of Civil Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Datta, A.K.	Paper setter of AMIIW examination	AMIIW	Winter 2011 and summer 2012
Pal S.	Moderator (as an external member) for the B.E. Odd Semester Examination 2011-2012 of Civil Engineering.	Burdwan University	Dec. 20, 2011

Department of Computer Applications

Name of the faculty	Name of the examination	University/Institute	Date
Changder S.	External Paper setter and examiner.	College of Agricultural Engineering and Post Harvest Technology (Central Agricultural University)	December, 2011

Department of Electrical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Acharjee P.	PG Project	BESU, Shibpur	May, 2011
Banerjee S.	M.Tech, Thesis	NITTTR, Kolkatta	Aug.16, 2011
Banerjee S.	A.M.I.E, Paper Setter	Institute of Engineers(I)	Aug, 2011
Banerjee S.	Moderator, B.E. Odd Semester examination	Burdwan University	Dec.14, 2011
Banerjee S.	Board of UG studies	Burdwan University	Dec.02, 2011
Banerjee S.	External Examiner, Practical Examination	BITM Shantinekatan	May 4 &11, 2011
Banerjee S.	Judge for annual technological festival	BIET, Suri	Sept. 09, 2011
Ghoshal S.P.	Ph.D. thesis Final Viva-Voce	SVNIT, Surat, Gujarat	Feb. 04, 2012
Roy N. K.	Ph.D. Examiner (EE)	Jadavpur University	May, 2010

Department of Electronics and Communication Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Ghatak R.	M.Tech ECE (Microwave) and M.Tech (VLSI) project viva voce	Bengal Engg and Sc University Shibpur	June, 2011
Ghatak R.	M.Tech ECE project viva voce.	ETCE Dept., Jadavpur University	June, 2011
Ghatak R.	M.Tech (Microwave) Viva	The University of Burdwan	2012

Department of Geology

Name of the faculty	Name of the examination	University/Institute	Date
Adhikari K.	Paper setter	Burdwan University	December, 2011
Gangopadhyay A.	External for M.Sc thesis interview	Burdwan University	December, 2011

Department of Humanities & Social Sciences

Name of the faculty	Name of the examination	University/Institute	Date
Banerjee J.	IIIT-A/MBA -IT Selection (2012)	Indian Institute of Information Technology, Allahabad	December 08, 2011

Department of Management Studies

Name of the faculty	Name of the examination	University/Institute	Date
Mandal K.	M. COM Examination	The University Of Burdwan	2011
Mandal K.	MBA Examination	Vidyasagar University	2011
Bandyopadhyay G.	BTECH Examination(Moderator)	WBUT	2011

Department of Mathematics

Nameofthefaculty	Name of theExamination	University/Institute	Date
Bagchi S.	M.Sc.Final Examination	University of Kalyani, W.B.	December,2011
Bagchi S.	B.Sc.4[th]Semester	North Bengal University, W.B.	October,2011
Dey L. K.	B.Sc. 4th Semester	North Bengal University, W.B.	October,2011

Deaprtment of Mechanical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Basak I.	Comprehensive Viva-voce (MMC18501) Final semester, Mechanical	ISM, Dhanbad	May 10, 2011

Department of Metallurgical & Materials Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Maity J	External Examiner for M.Tech. Thesis Evaluation	National Institute of Foundry and Forge Technology, Hatia, Ranchi	July 29, 2011
Mondal M. K.	External examiner for conducting sessional examination	Asansol Polytechnic, Asansol	December, 2011
Show B.K.	External examiner for conducting sessional examination	Asansol Polytechnic, Asansol	December, 2011

Department of Physics

Name of the faculty	Name of the examination	University/Institute	Date
Chakraborty A. K.	External paper-setter for M.Sc. Examination (Physics)	ISERC, Visva-Bharati University, Shantiniketan	April 2011
Chakraborty A. K.	External paper-setter for M.Sc. Examination (Physics)	Department of Physics, Assam University, Silchar	November 2011
Chakraborty A. K.	External Examiner for M.Sc. examination (practical)	Department of Physics, Assam University, Silchar	July 2011
Kumbhakar P.	M. Sc. (Physics) (Moderator & External Examiner)	Burdwan University	June, July & Dec., 2011 and Jan. 2012
Kumbhakar P.	Ph.D. (Synopsis Evaluation)	Assam University, Silchar	April, 2011
Meikap A.K.	Paper–setter of M.Sc Physics Examination	University Burdwan, Burdwan	May, 2011
Meikap A.K.	Paper–setter of Physics in IIM Examination	The Indian Institute of Metals, Kolkata	January, 2012
Sahoo S.	Paper–setter of M.Sc Physics Examination	VeeraSurendraSai University of Technology, Burla, Orissa	February, 2012

Annexure 11.16 (e): Invited experts in selection committee during 2011-12

Department of Biotechnology

Name of the faculty	Discipline	University/Institute	Date
Dey A.	Selection of Faculty in Biotechnology	Bengal College of Engineering & Technology, Durgapur	March, 2012
Chattopadhyay S.	Selection of Scientists, Tea Board, Govt. of India	Tea Research Institute, Kurseong	2011

Department of Chemical Engineering

Name of the faculty	Discipline	University/Institute	Date
Narayanan C.M.	External Expert, Curriculum Committee, PG Course on Computer Aided Process Analysis and Design	Government Engineering College, Kozhikode, Kerala	July, 2011
Narayanan C.M.	Panel of Juries, Asian Congress of Biotechnology, Shanghai, China	Asian Federation of Biotechnology	May 11-15, 2011

Department of Chemistry

Name of the faculty	Discipline	University/Institute	Date
B.P. Mukhopadhyay	Chemistry	Institute of Engineering And Industrial Technology (Sanaka Educational Trusts group of Institution)	Dec. 24, 2011

Department of Electrical Engineering

Name of the faculty	Discipline	University/Institute	Date
Banerjee S.	Electrical Engg.	SETGI, Kanksa under WBUT, Kolkata	June19, 2011
Banerjee S.	Electrical Engg.	BUIE Bankura under WBUT, Kolkata	Dec.17, 2011
Ghoshal S.P.	Electrical Engg.	B.C.E.T. Durgapur under WBUT, Kolkata	June29, 2011
Mahato S.N.	Electrical Engg.	IEIT, Malandighi, Durgapur	Dec. 24, 2011
Thakur S.S.	Electrical Engg.	B.C.E.T. Durgapur under WBUT, Kolkata	June 29, 2011
Thakur S.S.	Electrical Engg.	ISM, Dhanbad	May, 20, 2011
Thakur S.S.	Electrical Engg.	ISM, Dhanbad	Dec. 4, 2011
Thakur S.S.	Electrical Engg.	UIT, Burdwan	March, 2012
Thakur S.S.	Electrical Engg.	CMERI, Durgapur	Feb. 2012

Department of Geology

Name of the faculty	Discipline	University/Institute	Date
Adhikari K.	Subject Expert in Screening committee	Burdwan University	Dec. 2011
Adhikari K.	Subject Expert in Career Adversement Scheme (Cash)	Burdwan University	Jan. 13, 2012

Department of Mathematics

Name of the faculty	Discipline	University/Institute	Date
Basu K	For the post of Scientist	C.M.E.R.I	March 15-17, 2012
Sarkar (Mondal) S.	For selection of faculty in Mathematics	Institute of Engineering and Industrial Technology, Malandighi, Durgapur	June 21, 2011

Name of the faculty	Discipline	University/Institute	Date
Sarkar (Mondal) S.	For selection of faculty in Mathematics	Aryabhatta Institute of Engineering and Management Durgapur, Panagarh	Jully 10, 2011
Sarkar (Mondal) S.	For selection of faculty in Mathematics	DIATM, Rajbandh, Durgapur	August 11, 2011
Sarkar (Mondal) S.	For selection of faculty in Mathematics	Institute of Engineeringand Industrial Technology, Malandighi, Durgapur	Dec. 24, 2011

Deapartment of Mechanical Engineering

Name of the faculty	Discipline	University/Institute	Date
Basak I	Selection of Junior Research Fellow	CMERI, Durgapur	July 28, 2011 & September 14, 2011
Basak I	Selection of Faculty	NSHM, Durgapur (WBUT)	Dec 17, 2011
Halder B.	Selection of Assistant Prof and Associate Prof	ISM, Dhanbad	Sept, 2011

Annexure 11.16 (f): Invited lectures during 2011-12

Department of Biotechnology

Name of the faculty	Title of the lecture	Programme	Place	Date
Chattopadhyay S.	Functional interconnections of ZBFs in plant growth and development	International Symposium on crop biotechnology	IARI, New Delhi	Feb, 2012
Chattopadhyay S.	Functional interconnections of ZBFs in plant growth and development	Indo-German Workshop	IISER, Kolkata	Oct, 2011
Chattopadhyay S.	Functional interconnections of ZBFs in plant growth and development	National Symposium on genomics and proteomics	Dept. of Botany, Calcutta University	Mar, 2012
Dey A.	Bioreactors in Biotechnology	Bengal College of Engineering & Technology, Durgapur	BCET, Durgapur	Jan. 2012
Roy Barman S.	Genetic Improvement of Crop Plants	Institute of Agricultural Sciences, University of Calcutta	Kolkata	Jan. 21-22, 2012

Department of Chemical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Gupta P.	TEQIP Objectives: Prospects & Challenges	Key-note address in the Workshop on 'TEQIP Objectives: Prospects and Challenges'	UIT, Burdwan	February 27, 2012
Narayanan C.M.	Process Analysis, Simulation and Software	International Conference on Recent Advances in	Cochin	March 10-12, 2011

	Development – A Few Applications.	Chemical Engineering		
Narayanan C.M.	Liquid Membrane Permeation Technology – Prospects and Retrospect	International Conference on Membranes : Biological and Environmental Applications, Kottayam	Kottayam	Sept. 16-19, 2011
Pal P.	Technological solution to groundwater arsenic contamination problem	Key note address in International Workshop on Water Resource Management (with total sponsorship)	Lappeenranta University of Technology, Finland	April 10-16, 2011

Department of Chemistry

Name of the faculty	Title of the lecture	Programme	Place	Date
Moi S.C.	Kinetic and mechanism of bio-molecular substitution reaction on platinum & palladium (II) complexes, A corollary system of second generation anticancer drugs	Special invited lecture	Vienna University of Technology, Vienna, Austria	May 26, 2011
Moi S.C.	Kinetic and mechanistic studies of bio-molecular substitution reaction on d^8metalion systems (platinum & palladium (II) complexes) a corollary system of second generation anticancer drugs	Special invited lecture	Andhra University, Vishakhapatnam, Andhra Pradesh	Feb. 17, 2012
Panja S.S.	Conformational landscaping of some floppy molecules by Laser Induced Fluorescence Spectroscopy	National seminar on Recent advances in chemical science	Burdwan University	March 15, 2012
Saha R.N.	Waste management Wastewater Treatment	B. Tech	Caledonian College of Engineering, Sultanate of Oman	March 27 – April 1, 2011
Saha R.N.	Solid waste management	P.G.	NPTI(ER), Durgapur	June 16, 2011

Department of Civil Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Banik A.K.	Nonlinear Dynamics of Compliant Offshore Structures	National Workshop on Nonlinear Dynamical Systems (NDS2011)	NIT Durgapur	July 4-8, 2011
Nanda, R.P.	Role of Civil Engineers for Earthquake Disaster Mitigation	Earthquake Disaster management and awareness programme	DRIEMS,Cuttack	March 6-7, 2012

Department of Computer Science and Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Roy S.	Teaching as a Rewarding Career	Grace Hopper Conference for Women in Technology	Bangalore	Nov, 2011

Department of Electronics & Communication Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Chandra A.	Energy Conservation in Wireless Communication Systems with Relays	IEEE ICCIA	Science City, Kolkata	December, 2011
Ghatak, R.	Evolutionary Algorithm in the Design and Optimization of Microwave Circuits and Antenna	Work shop on Soft computing and Optimization Techniques	School of Electronics Engg, KIIT University	April 9-10, 2011
Ghatak, R.	Revisiting Microwave Engineering Learning Process: Role of Electromagnetic Simulation	Summer workshop cum tutorial on Antenna and Microwave Teaching: New Thoughts and Challenges	Center for Nano Sc. and Tech., Univ of Calcutta, Saltlake, Kolkata	June 13-17, 2011
Ghatak R.	ABCD Matrix in Microwave Circuit Analysis: Old Technique with New Insight	International Conference on Engineering Education in the New Century (E2NC 2012)	Sir J C Bose School of engineering	Feb. 4, 2012
Ghatak R.	Is the same dynamical theory of electromagnetic fields which Maxwell thought is taught today	NSHM Knowledge Campus Durgapur	NSHM Knowledge Campus Durgapur	March 7, 2012

Department of Humanities & Social Sciences

Name of the faculty	Title of the lecture	Programme	Place	Date
Modak A.	In Time of Breaking the Boundaries: Swami Vivekananda in the 21st Century Global Village	UGC-sponsored National Seminar on Swami Vivekanada organised by Suisa College, Purulia in collaboration with R. K. Mission Vidyapith, Purulia	Suisa College, Purulia	March 21-22, 2012
Rai S K	Personality Development through Language Lab	Workshop on English Language Lab	NVS, Bidhanagar Durgapur	Jan12, 2012
Rai S K	Communicative English	16 batch PGDC in Thermal Power Engineering	NPTI Durgapur	Jan 24, 2012

Department of Information Technology

Name of the faculty	Title of the lecture	Programme	Place	Date
Mitra D.	Contamination Control in Digital Microfluidic Biochips	Workshop on Nanocomputing & Biochips	ISI, Kolkata	March26-28, 2012
Mukhopadhyay S.	Network Simulator	Workshop on NS2	DIATM, Durgapur	July 30, 2011

Department of Management Studies

Name of the faculty	Title of the lecture	Programme	Place	Date
Roy M.	Water Resource Management issues in India	Water Resource Management Workshop	Lappeenranta University of Technology, Finland	April 10, 2011
Mandal K.	Research Design	Guest Lecturer at Kalyani University for Ph. D Course Work	Kalyani University	Dec. 27, 2011
Bandyopadhyay G.	Data Analysis Using SPSS	Guest Lecturer at Kalyani University for Ph. D Course Work	Kalyani University	Oct. 21, 2011
Bandyopadhyay G.	Data Analysis Using SPSS	Guest Lecturer at Kalyani University for Ph. D Course Work	Kalyani University	Dec. 28, 2011
Bandyopadhyay G.	Advanced Computer Applications	Guest Lecturer at Calcutta University for Ph. D Course Work	Calcutta University	Oct. 2011
Bandyopadhyay G.	Workshop on SPSS	MBA Students Orientation Coordinator & speaker for FDP	NSHM College Durgapur	Feb. 23-24, 2012
Bandyopadhyay G	Workshop on SPSS		Future Business School, Kolkata	Feb.16-18, 2012
Bandyopadhyay, G	Multivariate Analysis	Research Methodology Course	Nabadip Vidyasagar College	March 30, 2012

Department of Mathematics

Name of the faculty	Titleofthelecture	Programme	Place	Date
Basu K.	Time series analysis and forecasting	Invited talk (AICTE sponsored)	BCET Durgapur	March, 2012
Kar S.	SoftComputinginUncertainDomains	InvitedTalk	BCETDurgapur	March, 2012
Pal A.	Graph theory and its application	Invited talk	Rajshahi University, Jagnath University, Bangladesh	May, 2011
Pal P.	Zero-Prandtl number convection	InvitedTalk	IIT Kharagpur	Dec, 2011
Sarkar (Mondal) S.	Some inventory models and their applications	Invited talk	Achhruram Memorial College, Jhalda, Purulia	March, 2012

Department of Physics

Name of the faculty	Title of the lecture	Programme	Place	Date
Chakraborty A. K.	Carbon nanotube and graphite oxide based polymer nano-composites	Invited seminar at Institute of Materials Research and Engineering (IMRE)	Singapore	Jan. 13, 2012
Chakraborty A. K.	Graphene and carbon nanotube based polymer nano-composites	Invited and sponsored speaker at 2nd Molecular Materials Meeting (M3),	Singapore	Jan. 9–11, 2012
Chakraborty A. K.	Carbon nanotube based polymer nanocomposites	Invited seminar at Department of Applied Physics, Indian School of Mines (ISM)	Dhanbad	Dec. 13, 2011

Chakraborty A. K.	Nanotechnology: The New Buzzword That Is Changing Our 'Small' World	DST sponsored INSPIRE program organised by the Integrated Science Education & Research Centre (ISERC), Visvabharati University	Santiniketan	Dec. 16, 2011
Kumbhakar P.	Video Show on Exploring the Origin of the Universe-A Tour to CERN	Recent Trends in Optoelectronics	Dept. of Physics, Sripat Singh College, Jiagang, Murshidabad, W.B., India	Feb. 3, 2012
Kumbhakar P.	UV-visible photoluminescence emissions and giant enhancement in nonlinear optical properties of some chemically synthesized semiconductor nanoparticles	Second National Seminar on Recent Trends in Condensed Matter Physics including Laser Application (SNSCMPLA 2012)	Dept. of Physics, The University of Burdwan.	March 22-23, 2012
Meikap A.K.	Elecrical Transport of Polyaniline-Carbon nanotube Composites and Quantum well	National Seminr on "Recent Trends on Novel Materials (RTNM-II)"	Dept. of Phys. & Technophysics, Vidyasagar University	Nov. 29-30, 2011
Meikap A.K.	Anomalous Electrical Transport of Conducting Polymer and Carbon nanotubes Composites below room temperature	National Seminar on Recent Trends in Condensed matter Physics Including Laser Applications (SNSCMPLA2012)	Dept. of Physics, University of Burdwan	March 23, 2012
Sahoo S.	The Nature of Fractional Quantum Hall Effect in Graphen	National Seminar on "Panorama of Applications and Potential Dangers of Nanotechnology"	Department of Physics, R. I. H. S., Bhograi, Balasore	Feb. 25, 2012
Sahoo S.	LHC: An Experiment to probe the Nature	UGC sponsored workshop on "Experimental Physics"	Department of Physics, Ispat Autonomous College, Rourkela	March 18, 2012
Sahoo S.	Higgs Boson at the LHC	UGC sponsored National Workshop on "Innovative Experiments in Physics"	Department of Physics, Neelashaila Mahavidyalaya, Rourkela in collaboration with NIT, Rourkela	Jan. 9, 2012
Sahoo S.	Mysteries of the Universe	UGC sponsored Seminar	Nayagarh Autonomous College, Nayagarh, Odisha	Feb. 14, 2012

Annexure 11.16 (g): Session chair/convenor during 2011-12

Department of Chemical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Pal P.	Session Chair	International Conference on Recycling of Materials	M.G. University, Kottayam, Kerala	Water Recycling	August 5-7, 2011
Pal P.	Session Chair	ICEES-2012	Planetary Scientific Research Centre, Bangkok, Thailand	Chemical	March 17-18, 2012
Narayanan C.M.	Session Chair	Asian Congress of Biotechnology	Shanghai, China	Bioprocess ngineering	May 14, 2011

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Narayanan C. M.	Session Chair	International Conference on Membranes	Kottayam, Kerala	Biological Applications of Membranes	Sept.16, 2011
Narayanan C.M.	Session Chair	Chemical Engineering Congress – 2011	Bangalore	Bioprocess Engineering	Dec. 28, 2011
Narayanan C. M.	Session Chair	International ISHMT – ASME Conference	Chennai	Heat Transfer Equipment – Novel Designs	Dec. 29, 2011

Department of Chemistry

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Panja S.S.	Session Chair	National seminar on "Recent Advances in Chemical Science" at Burdwan University	Burdwan	Scientific Session III: Oral Presentations by Young Researchers	March15, 2012

Department of Civil Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Banik A.K.	Session Chair	National Workshop on Nonlinear Dynamical Systems (NDS2011)	NIT Durgapur	Session I	July 4-8, 2011
Banik A.K.	Session Chair	Fourth International Conference on Structural Stability and Dynamics (ICSSD 2012)	NIT Jaipur	Session II: Earthquakes, Winds & Impacts III	Jan. 4-6, 2012
Nanda R.P.	Session Co-Chair	Int. Conf on Advances in Civil Engineering 2011	K.L. Univ, Vijayawada,	Structural Engg.	Oct. 21-23, 2012
Singha Roy D. K.	Session Chair	International Conference on Advances in Civil Engineering, ACE – 2011	K.L. University Green Fields, Guntur, AP.	Concrete Technology	Oct.21 - 23, 2011
Karmakar S.	Session Chair	International conference on Advances of Civil Engineering, 2011.	Guntur, A.P	Structural Engineering Session	Oct.21 - 23, 2011

Department of Electrical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Banerjee S.	Session Chair	5th National power Electronics Conference	BESU, Shibpur	Machine Drives	Dec. 21, 2011

Department of Electronics & Communication Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Ghatak R.	Session Chair	IEEE AEMC and IAW 2011	Hyatt Regency Kolkata	Oral Session	Dec 22, 2011

Department of Humanities & Social Sciences

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Sengupta P.P.	Session Chair	International Conference on Business & Finance	New Delhi	Session 12: Finance & Entrepreneur-ship	Dec. 9-10, 2011
Sengupta P.P.	Session Chair	Second ISBA National Conference	DSMS Durgapur	Entrepreneur-ship	Feb. 20-21, 2012

Department of Information Technology

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Chakraborty B.	Session Chair	9th. IEEE Conference on Industrial Informatics, IEEE INDIN 2011	Lisbon, Portugal	Knowledge Management Applications in Service Engineering	July 26-29, 2011

Department of Mathematics

Name of the faculty	SessionChair/ convenor	Programme	Place	Session	Date
Basu K.	Session Chair	FRUAA	NIT Durgapur		Nov. 2011
Basu K.	Session Chair	Operations Research for sustainable Development in globalized environemt	Calcutta Business School		Jan. 2012

Department of Physics

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Meikap A.K.	Session Chair	Workshop on Nonlinear Dynamical Systems (NDS2011)	NIT, Durgapur	Techinal Session:1	July 5, 2011

Annexure 11.17 The Seventh Convocation 2011

The seventh Convocation of the Institute was held on September 24, 2011 in which His Excellency Shri M. K. Narayanan, Hon'ble Governor, West Bengal delivered the Convocation Address as the Chief Guest. The Guests of Honour were Professor (Dr.) Günther Rosner, Director Research, FAIR, GSI Darmstadt, Germany and Shri S. Thakur, Distinguished Scientist & Fellow, Nuclear Power Corporation of India Ltd. Dept. of Atomic Energy and Former Executive Director (Corporate Planning & Corporate Communications), NPCIL. Professor Bikash Sinha, Chairman, Board of Governors, presided over the function. In the seventh convocation, 498 B. Tech, 165 M. Tech., 64 MBA, 57 MCA, 15 M. Sc. and 36 PhD degrees were awarded.

Annexure 11.18 Any other information

Dr Papita Das (BT) has been selected as Editorial Board Member of seven International journal:

- Journal of Environmental Research and Management;
- Research Journal of Environmental Sciences;
- Journal of Environmental Science and Technology;
- Research Journal of Environmental Toxicology;
- International Journal of Chemical Technology;
- Current Research in Chemistry;
- International Journal of Water Resources and Environmental Engineering

Professor P.Pal (ChE) was invited as speaker in World-wide Sustainable Development Dialogue by the President Max Planc. Society, Germany, 2011.

An article entitled "Peel filter" authored by Ms. Megha Prakash, based on Dr. Susmita Dutta's (ChE) research work, was published in 'Down to Earth' magazine on 15th. September, 2011.

B.P.Mukhopadhyay (CH) was an Honorary Member, Advisory Comittee of Institute of Engineering and Industrial Technology (Sanaka Educational Trusts Group of Institution) 05.01.2012.

Dr. V.K. Dwivedi (CE) acted as an expert for inspection of Technical Institute under WBUT, Kolkata-64 during July 23-24, 2011.

Dr.V.K. Dwivedi (CE) acted as Observer WBJEE Observer for JEM-2012.

Dr.Amlan Das (CE) acted as Observer WBJEE Observer for JEM-2012.

Dr. A K Banik (CE) acted as an expert for inspection of Technical Institute under WBUT, Kolkata-64 during February 09-10, 2012.

Dr. R. P. Nanda (CE) acted as Observer WBJEE Observer for JEM-2012.

Dr.R. P.Nanda (CE) acted as Expert for Inspection to different Institution under WBUT.

Dr. Anirban Sarkar (CA) acted as IPC member of International Conference on Eco-friendly Computing and Communication Systems (ICECCS), 2012 to be held at Cochin, Kerala, India.

Dr. Anirban Sarkar (CA) acted as IPC member of 3rd International Conference on Computer and Communication Technology (ICCCT2012), 2012 to be held at MNNIT, Allahabad, India.

Dr. Anirban Sarkar (CA) acted as IPC member of 10th International Conference on Computer Information Systems and Industrial Management Applications, Kolkata, India, December 2011.

Prof. S.P. Ghoshal (EE) is a member of Advisory Committee of 1st International Conference on Engineering and Built Environment (ICEBE 2012), Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia.

Prof. S.P. Ghoshal (EE) supervised Praghnesh Bhat for his PhD degree in SVNIT, Surat, awarded on February, 04, 2012 (Ph.D Thesis Topic: Automatic Generation Control and Its Optimal Performance in Traditional and Restructured Power Systems Integrated with FACTS Devices and Wind Power Generation)

Prof. S.P. Ghoshal (EE) acted as a reviewer of application for reemployment in the post of Professor, Department of Applied Physics, Calcutta University Prof. Satish Chandra Bera, Applied Physics, Calcutta University.

Prof. S.S. Thakur (EE) was a Member of the Advisory Committee for Replacement of Lifts in Campus and Offices of CMERI, Durgapur.

Prof. N.K. Roy (EE) is an empanelled expert of Project Review committee of DSIR, Department of Science and Technology, Delhi.

Prof. S. Ghosh (EE) supervised S. Mohanty for his *Ph.D. Degree awarded in NIT, Rourkella.(Ph.D Thesis Topic:* Some studies on breakdown of solid insulations and its' modeling using soft computing techniques)

Dr. S. Banerjee (EE) is a member of National Advisory Committee for 5th National Power Electronics Conference (NPEC 2011).

Dr. S. Banerjee (EE) is a member of Academic Council of Asansol Engg. College under WBUT, Kolkata.

Dr. S. Banerjee (EE) is Asociate Editor, Journal of Electronics and Electrical Engineering.

Dr. P. Acharjee (EE) was a member of the Doctoral Committee of Electrical Engineering Department in BESU, Shibpur, March, 2012.

Dr. Avijan Dutta (MS), S.Sarkar (MS), Dr. A Sarkar (CA), Dr. S Changder (CA), P Choudhury (CA), S Das (CA) edited the volume-II of Contemporary Issue in Business and Information Management (ISBN 978-81-8424-744-2).

Dr. Seema Sarkar (Mondal) (M) recieved the Letter of Appreciation from International Journal of Research in Commerce, IT and Management, ISSN 2231-5756 for the paper title A fuzzy EOQ inventory Model with Learning Effects Incorporating ramp type demand, partial backlogging and inflation under trade credit financing.

Dr.S.K.Mitra (MME) was nominated as the Chairman of the Selection Committee for the Selection of Project Scholars at CMERI, Durgapur.

The Biography of Dr. Joydeep Maity (MME) has been accepted for publication (among 23 materials scientist selected by NOVA publishers, USA) in "Materials Science Researcher Biographical Sketches and Research Summaries" NOVA publishers USA, 2012, Editors: Satomi Matsumoto and Ueda Iwate.

Yogesh K. Agarwal, a final Year student, published a paper entitled 'Length of near-wall plumes in turbulent convection' in Journal of Fluid Mechanics, 2012.

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