

55th ANNUAL REPORT 2014-2015

(April 01, 2014 – March 31, 2015)



**NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR
Mahatma Gandhi Avenue, Durgapur-713209
West Bengal, INDIA**

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

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From Director's Desk



We are pleased to publish the 55th Annual Report 2014-15 of the Institute depicting our progress in the last financial year.

National Institute of Technology Durgapur, an Institute of National Importance, focuses on imparting quality technical education with equal emphasis on research and innovation. It has always been encouraging the faculty and students to engage in active research and academics. The output indicators corroborate the tremendous progress made by the Institute over the last few years. The students also participate in sports, cognitive, social and cultural activities through various clubs, winning laurels and bringing glory to the Institute. A huge expansion programme has been undertaken for various infrastructural facilities. All the stakeholders take immense pride in the progress of the Institute and have been striving hard to keep the flag of National Institute of Technology Durgapur flying high.

Professor T. Kumar

Director

National Institute of Technology Durgapur

Progress at a Glance (2014-2015)

- Three new M Tech programmes were introduced in 2014-15.
- The Institute has been actively participating in the activities of TEQIP-II, a World Bank assisted programme for improvement in quality of technical education and research.
- Collaborative activities are in progress with CERN Geneva, Caledonian College of Engineering, Muscat and a number of premier universities abroad. Faculty visits, students' internship and collaborative research have been taken up. Six pre-final year students did the summer internship at CERN, Geneva.
- The faculty members of the Institute have publication and acceptance of 416 papers in peer-reviewed journals and also published 307 papers in proceedings of national and international conferences in 2014-15.
- Sixty six sponsored projects are being executed by the faculty members presently while 12 have been completed successfully during this year.
- Fifty two PhD degrees were awarded by the Institute in 2014-15.
- Faculty members acted as reviewers for 196 peer-reviewed journals and books.
- 521 B.Tech students were placed through in-campus interviews in the session 2014-2015. In addition, 162 B.Tech students got their second job.
- More than 40 workshop/short-term courses and conferences were organized by various departments of the institute. Five of them were organised jointly by two or more departments.
- Trainee Teacher Scheme was implemented

The Tenth Convocation 2014-15

The tenth convocation of the Institute was held on February 11, 2015 in Swami Atmapriyananda, Vice Chancellor, Ramakrishna Mission Vivekananda University, Belur Math, delivered the Convocation Address as the Chief Guest. Professor Amalendu Bhushan Bhattacharyya, Chairman, Board of Governors, presided over the function. In the tenth convocation, 744 B Tech, 235 M Tech, 60 MBA, 87 MCA, 35 MSc and 51 PhD degrees were awarded.

1.0 INTRODUCTION

1.1 Vision Document

Vision

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

Mission

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

Objectives

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

Action Plan

A. Research

1. To intensify research – Demand-driven research activities will be taken up in different thrust areas and required infrastructure will be set up to support such activities. Intake of Institute full-time research scholars will be increased as they play a vital role in sustaining research activities in an institution. Moreover, they will cater to the urgent requirement of faculty in the technical education sector. Freshly recruited young faculty members shall be provided with seed money for good quality research project proposals by the Institute. Funding from TEQIP-II, plan grant and different sponsoring agencies will be utilized for the enhancement of research activities. A sponsored research cell will be established.

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

2. To initiate students to research early – All students, including undergraduate students will be encouraged to get engaged in research early. The students shall be financially supported for international research internship and for presenting papers in national and international conferences. They will also be associated with collaborative research projects.

B. Collaboration

1. Collaboration with academic institutions – Collaborations with various premier academic and research institutions in India and abroad will be enhanced. It will encompass faculty and students' exchange programmes, joint academic programmes and research. Joint research proposals shall be submitted to funding agencies.
2. Inter-NIT research groups – A special focus shall be placed on forming inter-NIT research groups in multi-disciplinary thematic areas. Joint projects, doctoral and post graduate research shall be carried out to reap synergistic benefits.
3. Enhanced interaction with industries – Collaborative research programmes, participation of experts from industries in academic decision-making, invited lectures, training programmes for industry personnel will be enhanced. Internship in industries shall be encouraged. Testing and consultancy by the faculty and staff members will be intensified. An Industry-Institute-Interaction cell will be established.

C. Teaching & Training

1. To strengthen existing B. Tech. programmes – The UG laboratories will be expanded and augmented. Teaching-learning process will be further modernized with teaching aids and learning resources. Online students' feedback system on the performance of the faculty should be introduced.
2. To strengthen existing PG Programmes – 16 existing M. Tech. Programmes will be strengthened by modernizing the PG laboratories. In TEQIP (Phase II) 36 PG laboratories will be modernized in different departments. More new laboratories will be set up. Further strengthening will be made from plan grants.
3. To start new academic programmes in emerging areas - 25 new academic programmes will be introduced. Skilled postgraduates will be produced in areas having market demand.
4. Revision of curricula and syllabi – The curricula and syllabi will be revised regularly in keeping with technological advances. External experts from industries and academia will be consulted in the endeavour.
5. Flexibility in academic programmes – More multi-disciplinary academic programmes will be encouraged.
6. Academic support to weak students – Finishing Schools, remedial teaching and special training on soft skill will be conducted for the weaker students.

7. Faculty and staff development programme – The faculty members will be encouraged to participate for refresher courses, training programmes and collaborative research programmes to premier institutions in India and abroad. They will also undertake pedagogical training. The staff members will also be trained in different areas. The entire training programme will be based on an exhaustive training need analysis carried out by the departments.
8. Continuing Education programme – More such programmes for the faculty members and staff of academic institutions and industry personnel will be organized regularly. A Continuing Education cell will be set up.
9. Institutional Management capacity enhancement – Responsible officials like Deans and Heads will be exposed to modern management techniques so that these tools may be used in education management.

D. Infrastructure Development

1. To strengthen central academic facilities – Various central academic facilities like computer centre, library, workshop, central instrumentation facility, etc. will be modernized. More text books shall be issued to the students.
2. Institute Automation – A comprehensive Institute Automation system will be set up to integrate all the activities of the Institute, to speed up the decision-making process and to move towards a paperless and transparent administration.
3. Campus Expansion – The present campus is now grossly inadequate in view of the recent and future expansion of the institute. It has become absolutely necessary to acquire additional land around the present campus for expansion. In case it is not available, land may be explored in and around Durgapur to set up a second campus.
4. Expansion and improvement of Infrastructure – Infrastructure needs urgent expansion to cope with rapidly increasing strength of students and faculty. Though additional facilities are being set up, it needs much more. Construction of more students' hostels, faculty quarters, and academic blocks housing classrooms, laboratories, faculty rooms and other supporting infrastructure is needed urgently. The entire Institute campus should be made wi-fi enabled. The infrastructure for health service should be expanded and improved. Departmental libraries should be strengthened. Audio system should be installed in large classrooms. Adequate facilities shall be provided to the staff members. The acute shortage of basic amenities like power and water must be overcome from additional sources.
5. Students' Amenities – Auditorium, Open Air Theater, Swimming Pool and additional playgrounds will be set up. The existing facilities of indoor games and other sports and gymnasium will be expanded.

1.2 Education System

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

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

The Institute 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.

1.3 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 is now pursuing its activities in TEQIP-II as well. A new Centre of Excellence on “Advanced Materials” has been set up under TEQIP-II. Over the last few years NIT Durgapur gradually evolved from a teaching-centric institution to an institution focusing on both teaching and research. The faculty members were encouraged to intensify their research activities. This resulted in a rapid increase in research output, like publication in peer-reviewed journals and being selected for sponsored projects. The Institute also initiated collaborative research programmes with esteemed research and academic institutions like CERN, Geneva, Caledonian College of Engineering, Muscat Oman, National University of Singapore, and many other academic institutions all over the world and industries like Durgapur Steel Plant. Internship was arranged for the undergraduate students in CERN, Geneva, Germany and NUS Singapore. A number of seminars, conferences, workshops and short-term courses were organized and the faculty members were encouraged to visit premier institutions in India and abroad for participation in conferences, short-term courses and training programmes. New academic blocks, student hostels and faculty residential blocks have been constructed and the existing academic building is being renovated.

2.0 AN OVERVIEW

2.1 Historical Background

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

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

2.2 Location

NIT Durgapur is located in the heartland of industrial activities and the mineral-rich region of West Bengal, also known as ‘The Ruhr of India’. The city of Durgapur is well connected by rail with Kolkata, 158 km away, and is an important railway station on the main New Delhi-Kolkata route. It is a two and a half hours’ drive from Kolkata airport along Durgapur Expressway and 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:

The National Institute of Technology Durgapur is an Institute of National Importance with a reputation cutting across international boundaries. It runs four-year Bachelor of Technology 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. programmes. Total number of M. Tech. programmes on the offer is nineteen. A three-year full time MCA, two-year full time MBA and two-year full time M. Sc. programmes have been on the offer since 2000, 2004 and 2009 respectively.

2.6 Programmes Offered

2.6.A. Under-Graduate Courses:

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	
			All India Quota	Andaman Nicobar Quota
1	Bio-Technology	B. Tech.	92	4
2	Chemical Engineering	B. Tech.	62	5
3	Civil Engineering	B. Tech.	62	4
4	Computer Science & Engineering	B. Tech.	92	6
5	Electronics & Communication	B. Tech.	92	6
6	Electrical Engineering	B. Tech.	92	6
7	Information Technology	B. Tech.	92	5
8	Mechanical Engineering	B. Tech.	139	6
9	Metallurgical & Materials Engineering	B. Tech.	77	5
Total			800	47

In addition, 60-70 seats are filled up by *foreign students* as nominated by the Government of India under various schemes. 50% of the seats are reserved for candidates from *West Bengal*. 3% of the seats are reserved for *physically handicapped* candidates from West Bengal.

The remaining 50% seats are allotted based on the All India Rank. 15% and 7.5% of the total seats are reserved for SC candidates and ST candidates, respectively. 3 % of the seats are reserved for *physically handicapped* candidates. All the Under-Graduate Courses are approved by the All India Council for Technical Education (AICTE).

2.6 B. Post-Graduate Programmes

(a) Full-time programmes

The Institute offers 19 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

At least 60% marks (6.5 CGPA) in BE/ B Tech / M Sc or equivalent, as applicable); relaxation of 5% marks / 0.5 CGPA is applicable for SC/ST candidates.

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

(ii) Department of Computer Science & Engineering: BE/ B. Tech in Computer Engineering, Computer Science, Computer Science & Engineering / (eqv AMIE + 2 years of professional experience).

(iii) Department of Electronics & Communication Engineering: **(a) Specialization in Telecommunication Engg:** BE/ B. Tech. or equivalent in Electrical & Electronics Engg/ Electrical Engg/ Electronics & Communication Engg/ Electronics & Telecom Engg/ Electronics Engg/ Telecommunication Engg/ Applied Electronics & Telecommunication Engg/ Communication Engg/ Electronics & Computer Engg/ Electronics

& Electrical Communication Engg/ Electronics & Electrical Engg/ Electronics Communication & Instrumentation Engg/ VLSI System Design. **(b) Specialization in *Microelectronics & VLSI***: BE/ B. Tech. or equivalent in Electrical & Electronics Engg/ Electrical Engg/ Electronics & Communication Engg/ Electronics & Telecom Engg/ Electronics Engg/ Telecommunication Engg/ Applied Electronics & Telecommunication Engg/ Communication Engg/ Electronics & Computer Engg/ Electronics & Electrical Communication Engg/ Electronics & Electrical Engg/ Electronics Communication & Instrumentation Engg/ VLSI System Design

(iv) Department of Information Technology: BE/ B. Tech. in IT/ Computer Engineering/ Computer Science/ Computer Science & Engineering/ Computer Science & Information Technology/ Computer Technology/ Electronics & Communication Engineering/ Electronics & Telecommunication Engineering

(v) Department of Metallurgical & Materials Engineering: **(a) Specialization in *Materials Engineering***: B.E./ B. Tech. or equivalent in Metallurgical & Materials Engineering or (equivalent AMIIM with two years of professional experience) **(b) Specialization in *Industrial Metallurgy***: B.E./ B. Tech. or equivalent in Metallurgical & Materials Engineering or (equivalent AMIIM with two years of professional experience)

(vi) Department of Chemistry (Corrosion Science and Technology): M. Sc. in Chemistry (Pure/applied), M. Sc. in Biochemistry/ Environmental Science with Chemistry as major subject in graduation 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/ Chemistry/ Materials Science/ Nanoscience/ eqv; B Tech in Metallurgical Engg/ Materials Engg/ Mechanical Engg/ Instrumentation Engg/ Chemical Engg/ Electronics Engg/eqv

(viii) Department of Mathematics (Operations Research): BE/B. Tech. in any branch of Engineering/ Technology, M Sc in Mathematics/ Statistics, MCA

(ix) Department of Biotechnology: B. Tech/ BE degree in Biotechnology with candidates having passed 10+2 level with at least 40% marks in Mathematics

(x) Department of Earth & Environmental Studies (Coordinating department for Environmental Science & Technology): B. Tech./ B.E. in Chemical / Civil/ Metallurgical / Biotechnology/ Leather Tech./Polymer Sc& Tech/ Food Tech. / Environmental Engg/ Agricultural Engg; M. Sc. in Environmental Sc./ Chemistry/ Physics/ Geology/ Biotechnology/ Agricultural Sc with mathematics as a subject in both 10+2 and degree level with at least 40% marks

(xi) Department of Computer Applications (Software Engineering): B. Tech./ BE in Computer Engineering/ Computer Science/ Computer Science & Engineering/ Computer Science & Information Technology/ Computer Technology/ Computer & Communication Engineering/ Computer Engineering & Application/ Computer Networking/ Computer Science & Systems Engineering/ Computer Science & Technology/ Computing in Multimedia/ MCA

(xii) Computer Centre (High Performance Computing): B. Tech./ BE in Computer Engineering/ Computer Science/ Computer Science & Engineering/ Computer Science & Information Technology/ Computer Technology/ Computer & Communication Engineering/ Computer Engineering & Application/ Computer Networking/ Computer Science & Systems Engineering/ Computer Science & Technology/ Computing in Multimedia/ IT/ MCA

MCA

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

MSc

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

MBA

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

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 Engineering (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 (Earth & Environmental Studies: Coordinating department)	08	02	01	04	05	00	20
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
17	Power Electronics & Machine Drives Electrical Engineering	08	02	01	04	05	00	20
18	Geotechnical Engineering Civil Engineering	08	02	01	04	05	00	20
19	High Performance Computing Computer Centre	08	02	01	04	05	00	20
	TOTAL	138	51	19	76	95	40	419

Other Post-Graduate Programmes:

SL. NO.	Specialization (Department)	Full time				Total
		Open	SC	ST	OBC	
1	Master of Business Administration (MBA)	30	9	5	16	60

SL. NO.	Specialization (Department)	Full time				Total
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
		106	32	18	56	212

2.7 Admission Procedure

2.7.A. Under-Graduate Courses:

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

2.7.B. Post-Graduate Programmes:

Mode of Admission is detailed hereunder.

SI No	Types of Student	Mode of Admission
1	Full Time GATE (M. Tech.)	CCMT
2	Full Time self-sponsored (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 score and Institute Level GD/PI
7	M. Sc.	B.Sc. results, Institute level test and viva-voce

2.8 Students

Eight Hundred Fifty Three students were admitted in under – graduate courses in the year 2014. Around Three *hundred and Ninety Three* students came from the state of West Bengal. Around four hundred and twenty three students came from the other twenty seven states of India. The total figure includes thirty seven under-graduate students admitted from foreign countries like Nepal, Bhutan, Bangladesh, Sri Lanka, Afghanistan, Mauritius, Zimbabwe, Mozambique, Mongolia, Ethiopia, Nigeria, Gambia, 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 *one thousand four hundred and forty nine* students (853 Under-Graduate Indian Students + 596 Post-Graduate Indian Students) *in the year 2014-2015* in various branches of Engineering at under-graduate and post-graduate levels the institute has excelled not only in academics but also in every field one can think of. Foreign Students are admitted supernumerary as decided by the Ministry of External Affairs and the Ministry of Human Resource Development. The students have received 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.

Extracurricular Activities:

i. Centre for Cognitive Activities

CCA, Centre for Cognitive Activities, is the focal point where convergence of all technical and scientific endeavours of the students materialises. As the technical gymkhana of the institute, this club is the revolution which bridges the gap between knowledge and application. Bulk of the extracurricular activities held in the college all the year round are organised by the CCA, with the objective of probing the dark recesses of human mind so that the grey cells are stimulated to create, conceptualise and evolve, triggering a rebellion of the new age mind against baseless conventions and meek acceptance. Initially the official science club of the college, CCA now is a non-profit organisation comprising 150 odd tech enthusiast students from 2nd through 4th year.

One of the main of all the year-long activities of the club is the convention of the Annual Techno-Management fest of the college, Aarohan, which incidentally happens to be the second largest of its kind in Eastern India. Started in the year 2003, it has been leading the light of instilling a culture of science, technology and innovation among the youth of the nation. With more than 40 events covering all genres of technology and management, Aarohan brings some of the best solutions for the mankind to the fore. Numerous workshops and lectures are organised, thus introducing the students to new vistas in the field of technology. Each year, the fest is centred around a different theme, Aarohan 2014 being focussed on “Unravelling the Indian Dream”, based on the implications of technical development on rural India.

Many great personalities, the likes of Dr. Sunil Handa, Professor at IIM-A and Founder of The Eklavya Foundation, Mr. Irfan Alam, founder of The Samman Foundation, Mr. R. Sriram, founder of CROSSWORD and Sramana Mitra, entrepreneur and strategy consultant at MIT have graced Aarohan with their enlightening presence.

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

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. The society organizes its unique auto fest “Motor Zundung” every year. Motor Zundung stands 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, robotic events like Go-Drafting, Relay Race, Robowars and Dahi Hundi, non-robotic events including Auto Quiz, Schaffer, Jig for a Jigsaw and even a mini auto-expo, courtesy the flagship event- Transmission.

iii. IEEE Students' Chapter

The chapter was formed on 25th February 2009 and is one of the largest student chapters in Eastern India. It aspires to emanate an aura of technology and innovation which would enrich the environment with the vibe of rational and scientific thinking. An international conference is organized every year under the aegis of the chapter.

iv. GNU/Linux Users' Group

Established in the year 2003, 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. *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 kaleidoscope of onsite and off-site events, Codecracker being a huge success.

v. Maths 'N' Tech club

Established in 2004, Maths N Tech Club was conceived with the concept of creating a platform to engender in students fervor for Mathematics, by emphasizing its benefits and want for logic, through a multitude of intriguing challenges. Due to the uniqueness of our area of emphasis and unending support of our faculty, Maths N Tech Club conquers greater heights with every passing year, as is evident from the grand success of ANK 2K13, the knowledge fest of NIT Durgapur, organized by Maths N Tech Club and also the magazine Anveshan, which has received favourable reviews all around.

We reveal the fact that of all our year round activities take place in our college campus and unfailingly attracts the largest of crowds, owing to the intrepid adventurous minds of most engineering students.

vi. Music Club

The music club originated as an initiative to harness and exploit the crossover sonic and musical sense amongst the college folks. Since its inception it served as a primary outlet for those who wished to showcase their talent in and around the campus. It has now performed all major college events such as the Recstasy, Aarohan, Verve, Motor Zundung and so on and so forth. Recstasy over the last year saw the club hosting "Pandemonium", a band competition where student music bands from Eastern India 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 Recstasy as well. Another event by the name of "Karaoke", a literal named event was also showcased. The club also had its members compete in fests outside the campus, like "Rock on" (Junction's annual band competition), Zephyr (NPTI band competition) etc.

vii. Chayanika

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.

viii. Prakriti

Prakriti- The Environmental Club of NIT Durgapur, strive to make a difference and inculcate the seed of awareness and action in the minds of prospective engineers to make this environment a sustainable place for every living being. It is to change the notion that Engineers do not care for environment into making every individual on campus, a Green Engineer, who minimizes the risk of pollution that might be caused with new inventions or breakthrough researches in technology. It imbibe the values our Mother Nature has taught us: Perseverance, Sustenance and Progress. Right from its rootage, Team Prakriti has made true those envisions of the founders of our club and crossed many milestones ever since its onset. We conduct our events throughout the year, reminding and awaking the slumbered minds, the importance of environment and its preservation.

Green Art: Green Art is all about expression of one's thoughts and concern towards nature and environment through Art. Essay Writing Competition, Poster Making and Collage Making Competition under Green Art are conducted.

Plantation: Saplings provided by the Forest Dept. of Durgapur are planted in various areas inside the campus.

Green Diwali: Team Prakriti propagates the propaganda of avoiding fire-crackers which cause pollution and are harmful. We conduct Diya Making Competition which has the participants making eco-friendly diyas, and also Rangoli Making Competition on Diwali.

Campus Cleaning: This is one of the events we Earth Warriors are tagged, by most of the inhabitants of this campus. Club members along with volunteers from NSS try cleaning up the campus.

RUNIT: It's a 7km mini-marathon run promoting the cause of preserving of nature and earth's resources. Athletes and non-athletes join this marathon which is conducted during mid-February every year to make it a successful event.

Village Trip: It's an exclusive trip by the core members of the club who visit a village every year and bring up solutions to the existing environmental problems of that village. It is synonymous to villageadoption, and observe the changes and improvements of that particular village.

Earth Hour: The star event which involves the candle march in and outside the campus by the students of NIT Durgapur organized our team has won many accolades. The lights are put out for an hour during which candle march is proceeded. The support provided by the management and of the campus and the professors is praiseworthy.

ix. SPIC MACAY Heritage Club

SPIC MACAY (Society for the Promotion of Indian Classical Music And Culture Amongst Youth) is a voluntary movement founded in 1977 by Dr Kiran Seth, a Professor at IIT-Delhi who was awarded the 'Padma Shri' for his contribution to the arts in 2009. SPIC MACAY celebrates Nishkaam Seva - the spirit of volunteerism – of giving selflessly without expectation, a value that is intrinsic to our culture and important to nurture in today's world. SPIC MACAY at NIT Durgapur is an MHRD funded heritage club with around

50 volunteers freshly inducted to host a concert show, Virasat during 13th to 15th March, 2015. It is an annual mini-fest of artists of national and international recognition. Mrs Pallabi De performed graciously inspiring many students by her interactive sessions in the mid of her mesmerizing steps of Kathak. Purulia Chhau Dance group led by Mr Chinnibas Mahato left hundreds of students and professors jaw-dropped as they witnessed a one-of-a-kind experience. Sitar tunes of Pandit Kushal Das and complementary tabla beats of Pandit Parimal Chakraborty was thoroughly enjoyed. The last day was a day of amusement with fables of puppetry by Mr Sudip Gupta of Dolls' Theatre, Kolkata and the night was an intense raga performance by Mr Ritesh and Rajnish Mishra. Although Virasat-2015 was the first star event of SPIC MACAY(NIT Durgapur chapter) which went on for three days, there had been prior event of SPIC MACAY in the institution hosting Ustad Sarwar Hussain's Sarangi performance accompanied by Sanjay Adhikari with Tabla on November 11, 2014. The very evening laid foundations for the proper formation of the club which now stands as stalwart club in the college welcoming music, dance and art forms of all kind to channelise into an organised functioning. This cultural club in college provides opportunity for authentic conglomeration of different Indian as well as semi-Indian genres of music, art and dance.

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 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, VERVE and AAROHAN

This academic year DC undertook many dance ventures. DC was up against dance troops of KOLKATA namely, FULL STOP, A-Team (St.XAVIERS).

DC members participated in SPRING FEST'15 in the events namely, CENTRIFUGE (group dance) and TWO FOR A TANGO (duo).

DC members also participated in CARPE-DIEM'15, the cultural fest of IIM CALCUTTA and were Runners-up. It also participated in the CHANNEL V-FEST.

xi. RADIO NITROZ

Formed in the year 2006-07, 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 and other interesting shows. Aside from airing shows, the club also conducts fun events in association with other clubs in various fests.

xii. Literary Circle

Literary Circle of NIT Durgapur is the melting pot for people who think differently. It serves a platform for people whose proclivity and passion towards creativity and the need for expressing makes them stand outside the rigors of engineering life. Amongst other things, we publish two editions of the official college newsletter – the Déjà vu every semester. We also bring out the Yearbook- the Episode, 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- NITMUN in an engineering institute in Eastern India. Since then we have been able to organize three editions of NITMUN with an outstanding success with participation from India and abroad. Our other works include Calliope- book reading society, literati etc.

xiii. Quiz Inc

Quizinc is the official quiz club of NIT Durgapur and it is popular for being one of the most proactive student clubs in the college. It was started in 2003 by two students Anup Nair and Harish Mohan and ever since its inception it has become one of the premier quizzing groups in India. It organizes fortnightly quizzes throughout the year, each one being of a unique genre namely India quiz, Biz quiz, Sports quiz, Myths and Fantasy quiz, Tech quiz, Newspaper quiz etc.... Each of these quizzes sees houseful participation and a stiff competition among the participants.

Every year in the even semesters, Quizinc organizes, Quizzitch Cup, the largest quizzing fest of Eastern India. Spread over three days it is comprised of some fiercely contested quizzes some of which are: Tech quiz, Auto quiz, MMS quiz, MELA quiz, Biz quiz and the General quiz. This three day extravaganza sees participation from quizzers of different parts of the country. Quizinc strives to serve its main motto of spreading knowledge through fun and entertainment and has been very much successful so far.

xiv. Club Communion

It aims to develop the qualities of imagination, innovation and integration among the students, group discussion and public speaking.

xv. Student Gymkhana

Students' Gymkhana, NIT Durgapur formerly known as the Students' Union is the elected body of NIT Durgapur comprising student's representatives and is entrusted with the responsibility of coordinating all student's activities and taking up the student's welfare issues. It has many affiliated clubs under its umbrella that are concerned with organising a multitude of technical and cultural fests and programs.

Students' Gymkhana also organises RECSTACY, the annual cultural fest of NIT Durgapur in the even semester of every academic year. It is a four day fest of unadulterated ecstasy. The venue is rife all night long with throngs of students enjoying to the hilt. RECSTACY will hold a series of theme based events providing an excellent platform for showcasing talent in cultural events. Renowned artists from India and Abroad would enrich RECSTACY and drive the crowd to frenzy. The expected footfall is estimated to be around 6000 and has a brand recognition in the eastern region of the country.

The ties with college alumni has been strengthened under the tenure of current office holders. Ragging, a much dreaded menace, has been eradicated completely much to the delight of the fresh entrants to the institute and thus NIT Durgapur keeps propelling itself on the path to excellence. Gymkhana also highlights the concerns of the student community in appropriate fora. The Gymkhana will leave no stone unturned in bringing about further development and hopes to receive the full cooperation of students and faculty in its future endeavours.

xvi. NSS

Like earlier years, National Service Scheme, NIT Durgapur organised many events in 2014-15, Unity Day, Women's Day, Education Day, Swachh Bharat Mission, Annual Camp, Medical Camp, just to name a few. Apart from the general activities of NSS volunteers, the volunteers of NSS participated in the celebration of the Republic and the Independence Day of the nation. Two separate NSS troops (boys and girls) participated in the parade, and posters and paintings were presented in the post parade celebration.

For rural/slum empowerment this session Annual Camp was organized during 15-22 March 2015. The camp activities had started months back with medicine collection from different hospitals and doctors. Cloth and other used materials were collected from faculty, staff, and students before Free Medical Camp at Old Court More, Durgapur (20-22 March 2015). During this camp free check up and treatment was provided to almost 300 inhabitants of the slum. In this endeavour the students got the full support of, almost 20 doctors, of Durgapur area, and New Boys' Club, a local self help group of Old Court More. Used-cloth distribution, painting competition for the children, workshop on skill development, sanitation awareness, etc. were some other activities of the camp.

Swachh Bharat Mission was another important event of this session. NSS organised a number of activities for sanitation awareness in and around campus during 8 – 9 November 2014. Among these activities,

Innovative Project for sanitation was appreciated by the Director, and some projects, presented in the competition, are under consideration for implementation.

xvii. NCC

The Institute NCC Unit has a senior Division Boys wing under 10 Bengal BN NCC Asansol West Bengal. This wing undertake co-curricular credit course (EA-51 & EA-52) for first two semester B-Tech curriculum as well as participated NCC scheduled programme on regular basis.

xv. Biotechnology Club

Biotechnology club is mostly run by the B.Tech, M.Tech students and the Research Scholars of the Biotechnology Department. The most important objective of the club is to aware the students regarding the recent development of Biotechnology throughout the world. Club organizes various activities throughout the year like seminars, debate and quiz contest etc.

Students' Research Activities

It is quite remarkable that in recent years National Institute of technology, Durgapur has seen more than 150 students travelling widely to foreign universities for research internship or presenting papers in international conferences. The institutions include CERN Geneva, MIT, University of LUND, Sweden, University of Poitiers, France, University of Technology, Germany, Universität Stuttgart, University of Agder, Grimstad, Norway, American University of Armenia, National University Of Singapore, Nanyang Technological University, Singapore, Université Pierre et Marie Curie Paris, Tor Vergata University; Via del Politecnico, Rome, University of Massachusetts, University of Auckland, New Zealand, Hamburg University of Technology (TUHH), Technical University of Chemnitz, Germany, Institute of Technology, Turkey, Leibniz University of Hannover, Universiti Tun Hussein Onn Malaysia, Universitat De Barcelona, Kyoto University, State University of New York, Albany, University of Technology, Poland, National Dong Hwa University, Taiwan and other institutes. Many others did their internship in the leading technological institutes and reputed corporate of India.

2.9 Examination & Evaluation

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

The PG course in engineering and technology are of four semester duration for the full time students and six semester duration for the part time students and lead to degree of Master of Technology (M. Tech). All the students of these post-graduate programmes 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 and Placement. 634 (UG & PG) students have been placed in the academic session 2014-2015. In addition to that 166(UG & PG) students got a 2nd job. In 2014-15, 93 companies visited including most of the global players, eg MICROSOFT, AMAZON, SNAPDEAL, ORACLE, AMDOCS, C-DOT, IBM, L&T, TCS, CESC, TATA STEEL, TATA MOTORS, TATA POWER, RELIANCE, HUL, MARUTI, HERO MOTOR, EXIDE, ERICSSON, SCHNEIDER ELECTRIC, VOLTAS, BPCL L&T.

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.

Department of Physical Training organized Co-Curricular Credit Course (EA-51 & EA-52) in Physical Education & Sports as a compulsory subject in B-Tech for first two Semester.

The Department of Physical Training also provides training facilities to all students, staff and the family members of the Institute. It has excellent infrastructure facilities for both outdoor and indoor games. Students are trained in various games and sports by well experienced and qualified coaches. The Institute has 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 11.5 (a), 11.6 (a) & 11.6 (c).

2.13 Rajbhasha Samiti

The Rajbhasha Samiti of the Institute issued directives from time to time for implementing and publishing Rajbhasha in the institute. It organised different activities such as Poem Recitation Competition, Short Speech Competition, Debate Competition, Essay Writing Competition, Drawing Competition etc. for students, faculties, staff and their family on the occasion of Independence Day, 15th August 2014 and Republic Day, 26th January 2015. Participants from students, faculties, staff and their family participated in each activity with much fan and fare. First, Second, Third and Consolation Prize in cash for each competition and for each category of students, faculties, staff and their family were distributed along with the certificates for the respective award. All the participants for different competitions were also given the certificate for participation in respective competition.

The Samiti organised Hindi Pakhwara from 1st to 14th Sept. 2014. Hindi Pakhwara was inaugurated on the first day, 1st Sept. 2014 by the Director of the institute, Professor Tarkeshwar Kumar. During Hindi Pakhwara-2014, activities such as Noting-Drafting Competition, Poem Recitation Competition, Short Speech Competition, Debate Competition, Essay Writing Competition, Drawing Competition etc. for hindi as well as non-hindi speaking students, faculties, staff and their family were organised on different days. Participants from students, faculties, staff and their family participated in each activity with much fan and fare. Dance competition and Hindi Song competition organised in the Student Activity Center draw much attention of all the community of NIT Durgapur participants in large number took part in these two competitions organised on second last and last day of Hindi pakhwara-2014. First, Second, Third and Consolation Prize in cash for each competition and for each category of students, faculties, staff and their family were distributed along with the certificates for the respective award during the Valedictory-cum-Closing Ceremony on the last day of the Pakhwara. All the participants for different competitions were also given the certificate for participation in respective competition. It encouraged the executive members of Hindi Chatra Sangh, "DARPAN" by providing them T-Shirt with logo of "DARPAN". It also published fifth edition of "JAGRITI", Rajbhasha Magazine of the institute. Jagriti publishes original writings of all the communities of the institute. Rajbhasha Samiti participates in the regular meeting of Town Official Language Implementation Committee (TOLIC) and helps in organising different activities by member office of TOLIC. It also sends participants to different activities organised by TOLIC. Rajbhasha Samiti coordinated courses for Praveen, Prabodh, and Pragya for faculties and staff of the institute and helped the faculties and staff to get cash award as well as salary increment for successfully passing Praveen, Prabodh, and Pragya examination conducted by Deptt. of Official Language, Ministry of Home Affairs, Government of India. Faculties, Officers, and staff participated in the All India Rajbhasha Samalen organised by Rajbhasha Academy, New Delhi at Goa in the month of July 2014 and and at Puri in the month of January 2015.

2.14 Notable Achievements using Graphs, Charts, Diagrams:

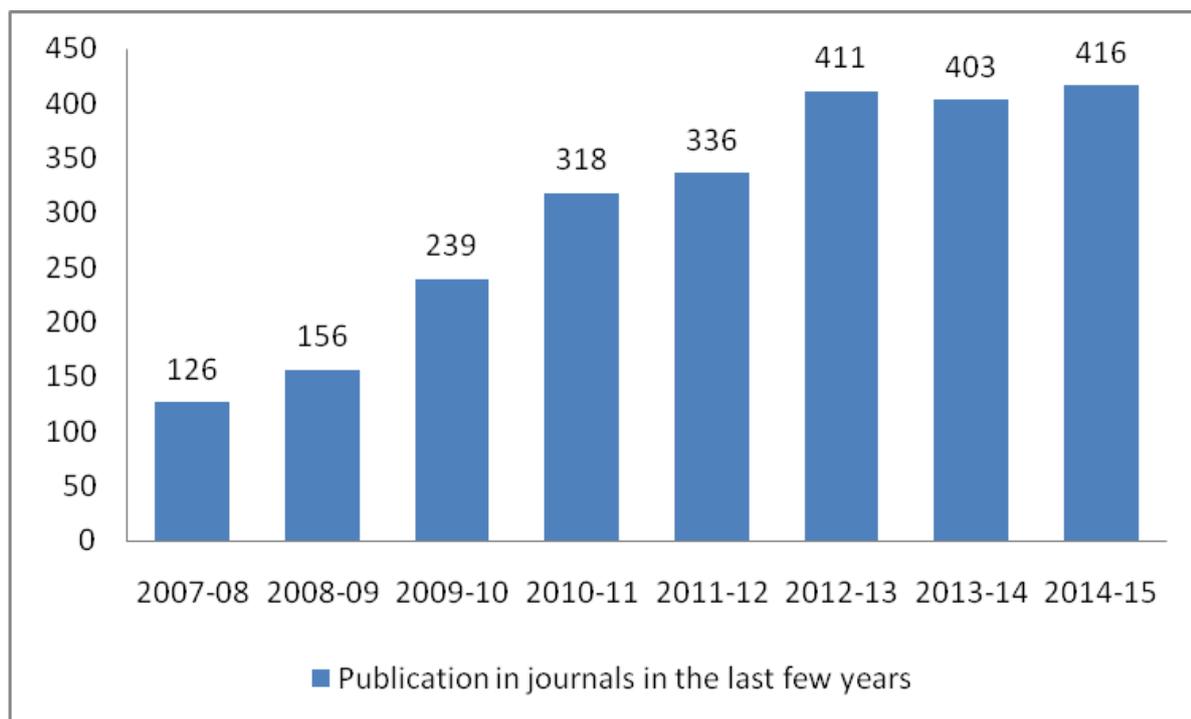


Fig. 1 Publication in journals in the last few years

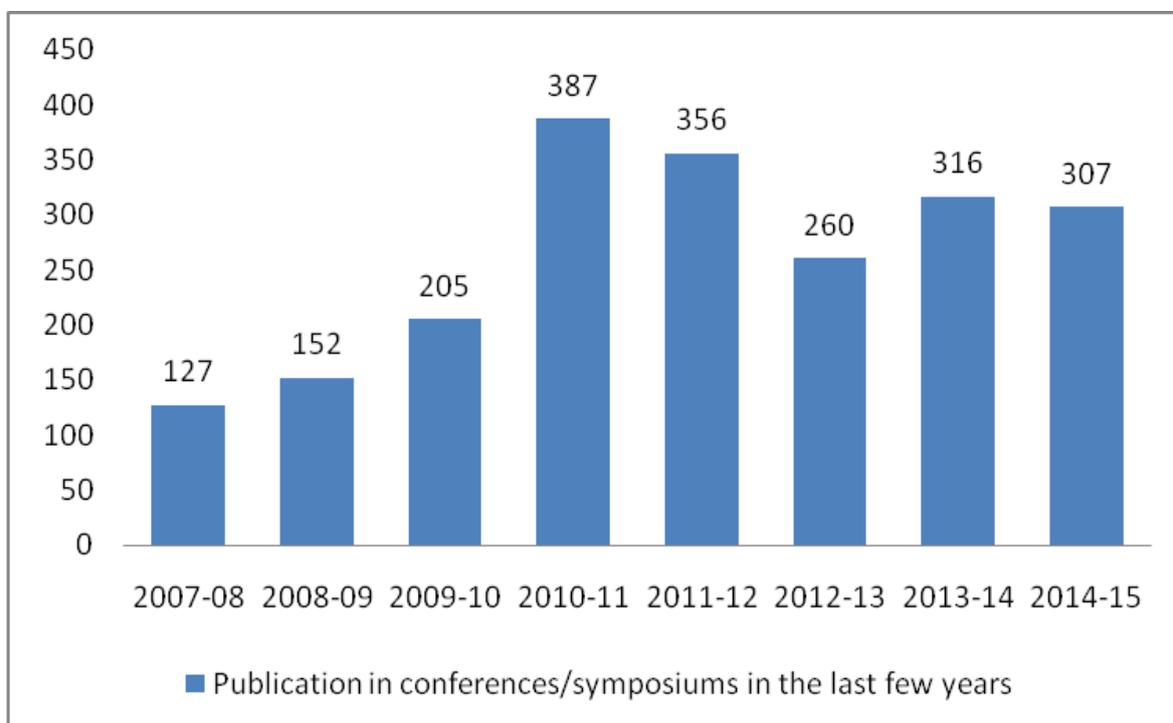


Fig. 2 Presentation in conferences/symposiums in the last few years

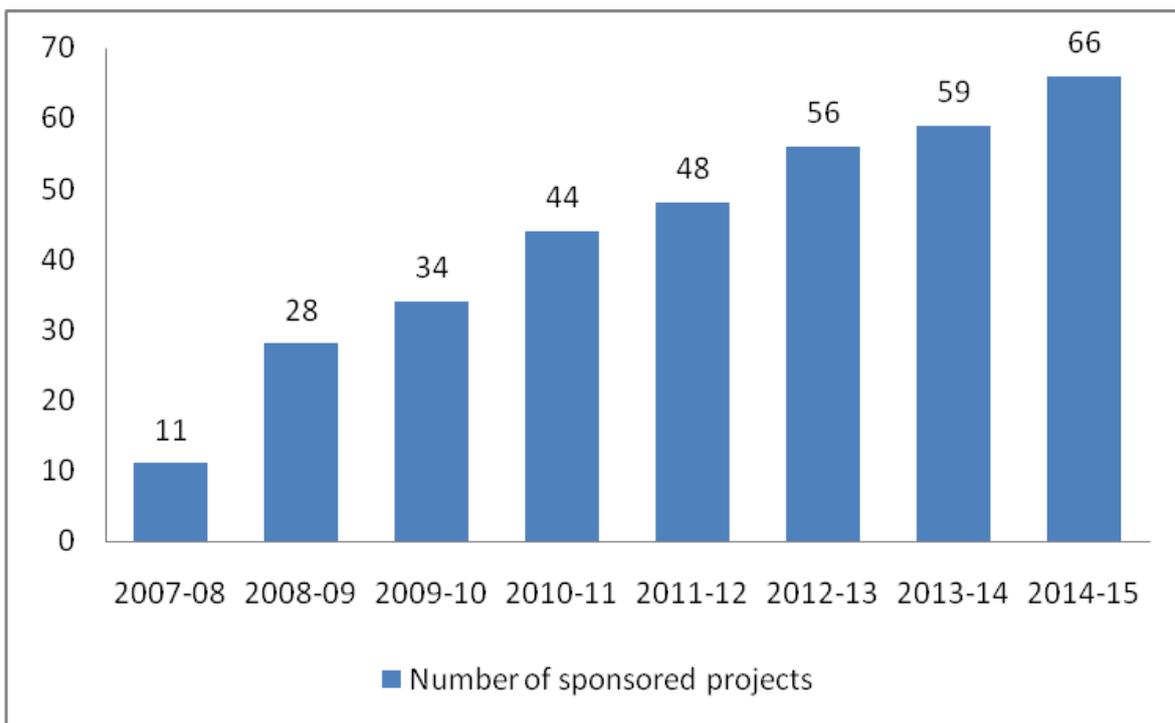


Fig. 3 Number of sponsored projects during the last few years

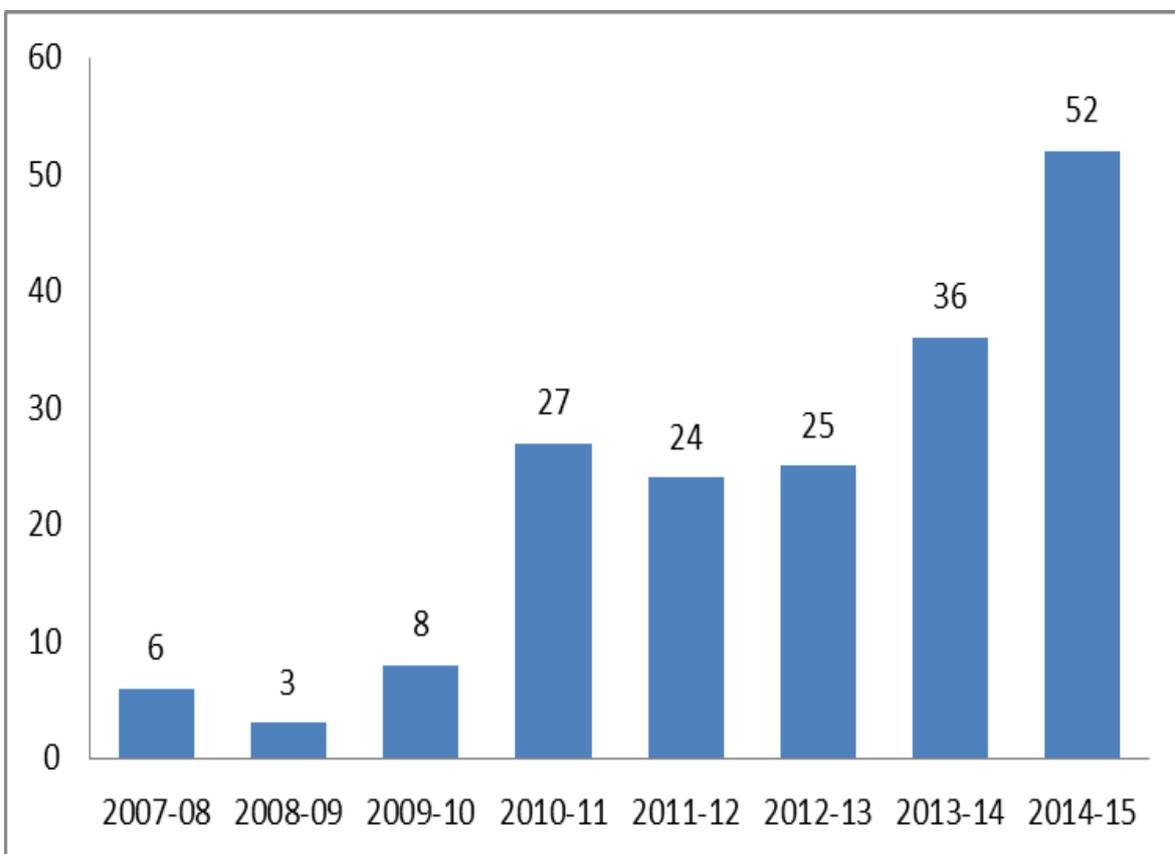


Fig. 4 Number of PhD degrees awarded during the last few years

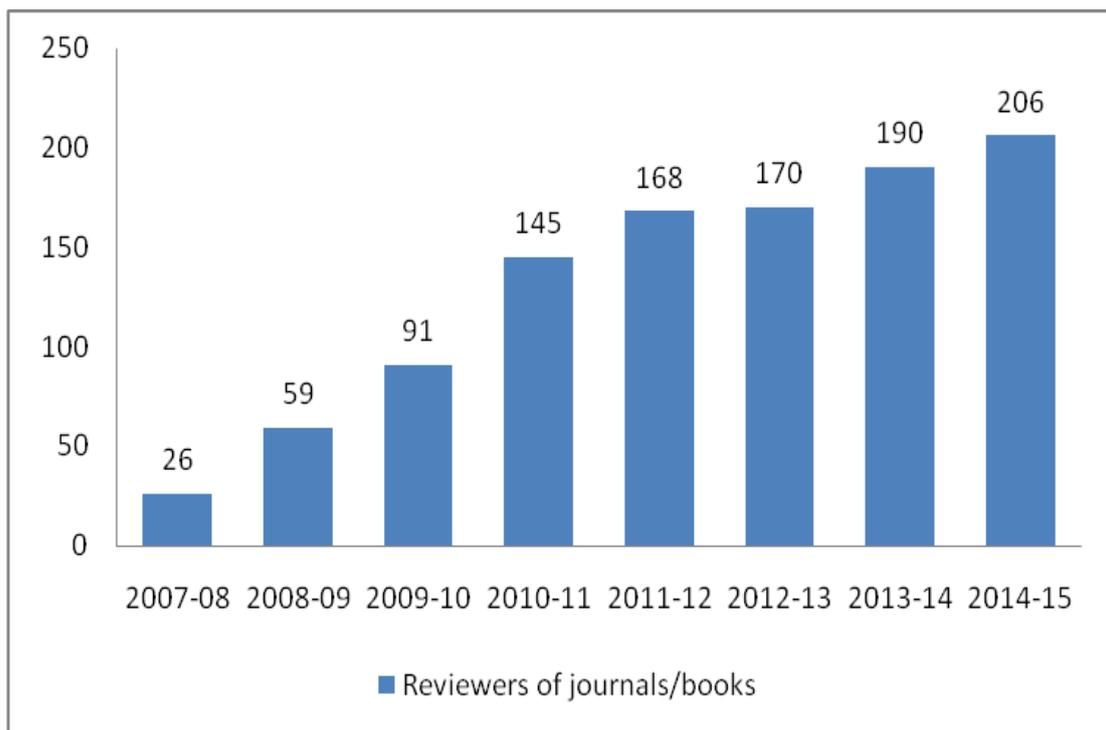


Fig. 5 Reviewers of journals/books during the last five years

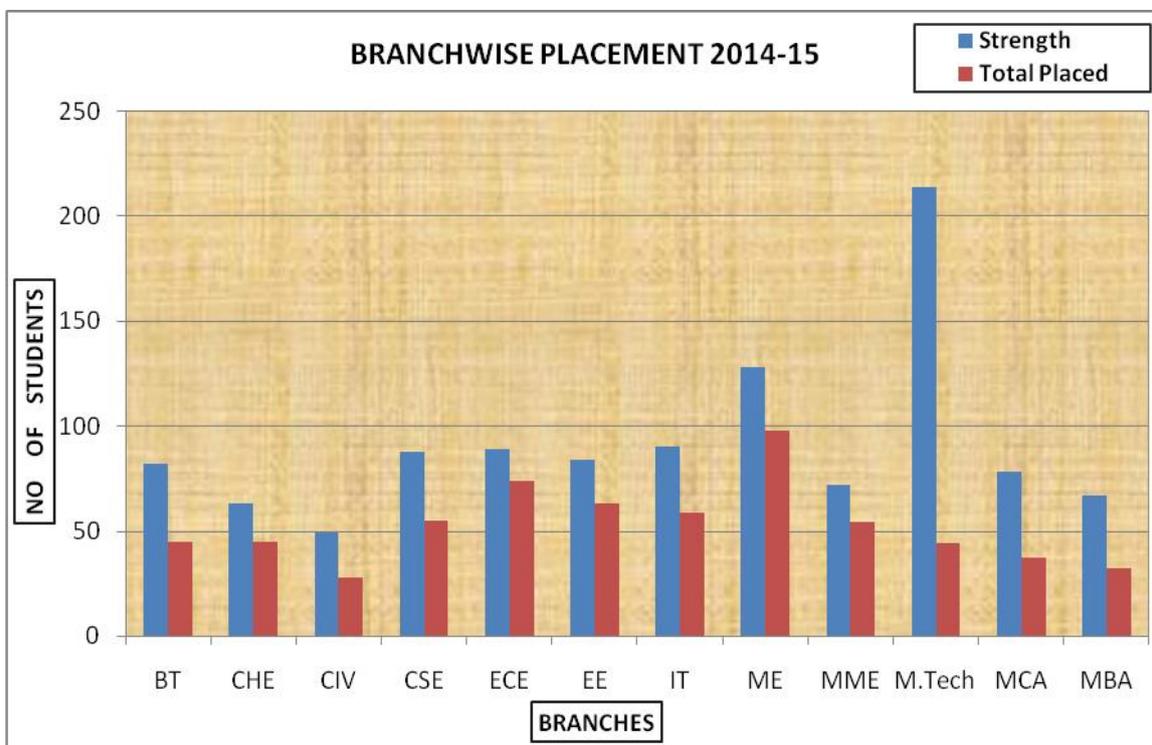


Fig. 6 Placement of B. Tech. students during 2014-2015



Fig. 7 The Tenth Convocation



Fig. 8 Sports day



Fig. 9 International Conference on Decision Support Systems for Early Warning and Mitigation of Disaster 2014



Fig. 10 Short term Course FuPO-2014



Fig 11 Short term Course WGTCTC-2014



Fig. 12 Annual Book Exhibition 2015, Central Library, NIT Durgapur



Fig 13. NCC WING of the Institute



Fig 14 Annual NSS Camp 2015, NIT Durgapur



Fig. 15 Republic day Celebrations 2015



Fig. 16 Swachh Bharat Abhiyan, NIT DURGAPUR 2015

3.0 THE STAFF**3.1 Academic Staff (Teaching)****Department of Biotechnology**

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

Department of Chemical Engineering

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

Department of Chemistry

Sl. No	Name of the post	Name
01	Professor	Mukhopadhyay Bishnu Pada, PhD
02	Associate Professor	Majhi Milan, PhD Moi Sankar Ch., PhD Patra Apurba Kr, PhD Sukul Dipankar, PhD Saha Rajnarayan, PhD
03	Assistant Professor	Adhikari Utpal, PhD Chakraborty Jitamanyu, PhD Panja Sujit Sankar, PhD Saha Tanmoy Kr., PhD

Department of Civil Engineering

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

Department of Computer Applications

Sl. No	Name of the post	Name
01	Professor	Nil
02	Associate Professor	Nil
03	Assistant Professor	Changder Subhamoy, PhD Choudhury Prasenjit, PhD Das Subhrojit, PhD Saha Mousumi Sarkar Anirban, PhD Saha Sujoy Sharma Abhijit, PhD

Department of Computer Science & Engineering

Sl. No	Name of the post	Name
01	Professor	Sanyal Goutam, PhD
02	Associate Professor	De Tanmay, PhD Nandi Subrata, PhD Pal (Debroy) Tandra, PhD Roy Suchismita, PhD Sarkar Goutam, PhD
03	Assistant Professor	Bhattacharjee Sanghita Dalui Mamta, PhD Guha Thakurta Parag Kr. Kisku Dakshina Ranjan, PhD Sadhu Sanjib Sen Bibhas

Sl. No	Name of the post	Name
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Computer Centre

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

Department of Electrical Engineering

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

Department of Electronics and Communication Engineering

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

Department of Earth & Environmental Studies

Sl. No	Name of the post	Name
1	Professor	Gangopadhyay Aniruddha, PhD
02	Associate Professor	Adhikary Kalyan, PhD
03	Assistant Professor	Mondal Sandip , PhD

Department of Humanities

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

Department of Information Technology

Sl. No	Name of the post	Name
01	Professor	Nil
02	Associate Professor	Choudhury Subhrabrata, PhD Nandi Debasish, PhD
03	Assistant Professor	Chakraborty Baisakhi, PhD Das (Daptary) Dipanwita Dutta Animesh, PhD Howlader Joydeep Jana Nandadulal Majhi Subhankar Mukhopadhyay Sajal, PhD Mitra Debasis, PhD

Department of Management Studies

Sl. No	Name of the post	Name
01	Professor	Roy Mousumi, PhD
02	Associate Professor	Bandopadhyay Goutam, PhD Dutta Avijan, PhD
03	Assistant Professor	Banerjee Nilotpal, PhD Dey Anupam, PhD Ghosh Amlan, PhD Mondal Kaushik, PhD Pal Durba, PhD Sarkar Subhadip

Department of Mathematics

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

Department of Mechanical Engineering

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

Department of Metallurgical & Materials Engineering

Sl. No	Name of the post	Name
01	Professor	Ghosh. Karuna Sindhu, PhD Mitra Swapan Kumar, PhD Mondal Dipak Kumar, PhD
	Ministry of Steel Chair Professor	Ganguly Amit, PhD

02	Associate Professor	Bhattacharya. Ashish, PhD Chakraborty Rajib Maity Joydeep, PhD Roy Rabindranath Pramanik Susanta
03	Assistant Professor	Bera Supriya, PhD Ghosh Madan Mohan, PhD Mandal Durbadal, PhD Mondal Manas, PhD Show Bijay Kr, PhD Mallik Manab, PhD Maji Barnali, PhD

Department of Physics

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

Further 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(e).

3.3 Training Status

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

3.4 Placement of Staff for Academic excellence

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

4.0 TEACHING PROGRAMMES

4.1 Programmes Offered

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

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

4.2 A1. Enrolment in B. Tech. Programmes during 2014-2015 Session (Genderwise):

Vide Annexure 11.8(b) 1.

4.2 A2. Enrolment in B. Tech. Programmes during 2014-2015 Session (Castewise):

Vide Annexure 11.8(b) 2.

4.2 B1. Enrolment in M. Tech. & M. Sc. Programmes, 2014-2015 (Gender wise):

Vide Annexure 11.8(b) 3.

4.2 B2. Enrolment in M. Tech. & M. Sc. Programmes, 2014-2015 (Caste wise):

Vide Annexure 11.8(b) 4.

4.2 C1. Enrolment in MCA Programme during 2014-2015 Session (Gender wise):

Vide Annexure 11.8(b) 5.

4.2 C2. Enrolment in MCA Programme during 2014– 2015 Session (Caste wise):

Vide Annexure 11.8(b) 6.

4.2 D1. Enrolment in MBA Programme during 2014-2015 Session (Gender wise):

Vide Annexure 11.8(b) 7.

4.2 D2. Enrolment in MBA Programme during 2014-2015 Session (Caste wise):

Vide Annexure 11.8(b) 8.

4.2 E. Enrolment of Research Scholars for PhD work during 2014-2015 (Full time & Part time):

Vide Annexure 11.8(b) 9.

4.3 Admission Statistics – UG/PG Programmes

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

4.4 Students' Total Strength

SI No	Name of the programme	Total Number of Students
1	Bachelor of Technology	3129
2	Master of Technology	535
3	Master of Computer Applications	233
4	Master of Business Administration	103
5	Master of Science	94
6	PhD	648
TOTAL		4742

4.5 The Hostels

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

Hostels	Boys/Girls	Actual student Capacity	Number of students accommodated
Hall-1	Boys	650	630
Hall-2	Boys	252	307
Hall-3	Boys	336	325
Hall-4	Boys	252	252
Hall-5	Boys	380	380
Hall-6	Boys	119	146
Hall-7	Girls	194	192
Hall-8	Girls	125	137
Hall-9	Boys	548	425
Hall-10	Girls	332	320
Hall-11	Boys	702	631
A & B Type Qr.	Girls	120	114

4.6 Scholarships/Assistance

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

4.7. Games and Sports

The Institute organized various intra NIT tournaments through out the year in the fields of football, volleyball, basketball, table tennis, cricket, chess, Tennis, Badminton and athletics. In the year 2014-2015 Institute participated in the following All India Inter NIT Games & Sports meet & Others sports meet.

1. All India Inter NIT Track & Field Meet (Men & Women) at NITK Rourkela during January 23-25, 2015.
2. All India Inter NIT Sports in Football (Men) at NIT Warangal during February 05 -08, 2015.
3. All India Inter NIT sports in Cricket (Men) at NIT Allahabad during February 13 -15, 2015.
4. National level Sports (SANGRAM -15) in Badminton (Men & Women) at IIT Roorkee during March 20-22,, 2015
5. All India Inter NIT Table Tennis Tournament (Men & Women) at NITK Bhopal during March 21-23, 2015.
6. All India Inter NIT Volleyball Tournament (Men & Women) at NITK Kurukshetra during March 28-31, 2015.

Achievements in 2014-2015.

- Best Women Athlete in All India Inter NIT Track & Field Meet. Org by NIT Rourkela.
- Football (Men) Winners in All India Inter NIT Football Tournament. Org by NIT Warangal.
- Table Tennis (Women) Winners in All India Inter NIT Table Tennis Tournament. Org. by NIT Bhopal.
- Volleyball (Women) Runners in All India Inter NIT Volleyball Tournament. Org. by NIT Kurukshetra.

4.8 Awards

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

4.9 Examination Details

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

SGPA- CGPA System

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

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

The product of the grade value and the credit unit of that particular subject is the grade point earned by the student in that subject. The total grade point (TGP) is the summation of all such grade points. Semester grade point average (**SGPA**) = **(TGP) / Total credit unit** of the semester, rounded up to second place of decimal. If a candidate cleared all the subjects, he is declared as passed in the grade sheet, otherwise supplementary. Supplementary candidate(s) will be allowed to appear in the supplementary examinations for the subject(s) in which he/she was failed. Fresh grade sheet is issued for such candidates with improved SGPA. The grade obtained by the candidates in the subject(s) for which he/she had appeared for the supplementary examinations are decreased by one step at the time of compilation of the supplementary examination results. Unsuccessful candidates in the supplementary examination are required to repeat the semester through readmission. Two such readmissions are permitted in the whole undergraduate studentship. The CGPA is also indicated in the grade sheet, which is the indicator of the student's continuing performance given by the ratio of **the total grade point scored** by the student up to the current semester and **the total credit unit of all the subjects** up to the current semester. Based on the CGPA at the end of the final semester the classes are awarded as follows: **CGPA ≥ 8.00** *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., M. Sc., MBA and MCA programmes. In some project based courses in MBA, the 70/30 ratio as indicated above is changed according to need as a special case.

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

4.10 Training and Placement

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

5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

5.1 Ph.D. Programmes – Existing and Proposed

Existing:

Vide Annexure – 11.4(g) 1

Proposed:

Vide Annexure – 11.4(g) 2

5.2 Details of PhDs done so far

Vide Annexure - 11.4(h) 1

5.3 Proposed Plan for Research

Vide Annexure - 11.4(h) 2

5.4 Institute-Industry Collaboration during 2014-15

Department of Biotechnology

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Bharat Petroleum, Rajbandh, Durgapur	Petroleum sludge bioremediation	Research
Dhuliajan and Jorajan Oil Fields (Assam), Oil India Ltd.	Microbial diversity for bioremediation	Research and Development
Digboi Refinery, Assam, IOCL	Microbial diversity for bioremediation	Research and Development
Guwahati Refinery, Assam IOCL	Microbial diversity for bioremediation	Research and Development

Department of 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

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
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 Chemistry

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Dr. Reddy's Laboratories, Hyderabad	Analytical method development	Employee of Dr. Reddy's Laboratories is pursuing Ph.D. at Chemistry Department, NITD

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 Electrical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Research on DGA, Gas Sensors	Joint Research
Central Power Research Institute, Bangalore	Study of Nano Fluid as Insulation	Joint Research
Personalised e Learning	Indian Institute of Technology, Kanpur	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Research on Drives and Control	Joint Research

Department of Mathematics

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Himadri Chemical and Industries Ltd.	Educational visit and identification of R&D Problems	Industrial tour

Department of Mechanical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
National Power Training Institute (NPTI) Durgapur	Thermal Power Station- Residual life improvement	Research

Department of Metallurgical & Materials Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Tata Steel Research and Development, Ijmuiden Technology Center, The Netherlands (with Dr. S. Das)	Bake hardening steel	B. Tech project
Durgapur Steel Plant	Foundry and heat treatment	To improve the mould life in foundry division
School of Automotive Engineering, Jadavpur University and Institute of Indian Foundryman, Kolkata	R&D for Howrah foundry cluster	Organising seminar and workshop to upgrade the Foundry practices followed in Howrah(West Bengal) foundry

5.5 Innovations and Technology Transfer**Patent filed during 2014-15****Department of Chemical Engineering**

Title	Inventors	Application No.
Process For The Isolation of Polyhydroxyalkenoate and use Thereof in Enhancing Microbial Electrocatalysis	R.N. KrishnaRaj Prof.P.Pal S.Chandran	46/KOL/2014
A Green Process for Continuous And Direct Production of L-Glutamic Acid	Prof.P.Pal Dr.R.Kumar	962/KOL/2014
High Flux Low Energy Osmotic System for Arsenic Removal at Low Cost	Prof.P.Pal & S.Chakraborty	1003/KOL/2014

Patent awarded during 2014-15**Department of Electrical Engineering**

Title	Inventors	Application No.
System and method of stable rotation of a magnetically levitated ferromagnetic body	Subrata Banerjee	1429/KOL/2012 Publication Date 20/06/2014

Department of Mechanical Engineering

Title	Inventors	Application No.
Damper with variable orifice for automobile suspension	Banerjee, N.	3481/MUM/2014

Department of Physics

Title	Inventors	Application No.
Fabrication of Zigzag TiO ₂ Nanostructure and improved light detection	Aniruddha Mondal, Ajitabh Kumar Tiwari	756/KOL/2014
An Axial SiO _x -TiO ₂ Heterostructure Nanowire Array useful for Simultaneous Multiband Detection	Aniruddha Mondal, Ajitabh Kumar Tiwari	448/KOL/2014

5.6 Workshops/Seminars Organised by the Institute (2014-15)**Department of Biotechnology**

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. T Kumar (NIT Durgapur) Prof. S. Datta (Jadavpur University), Prof. P Bhattacharya (Jadavpur University), Prof. D Das (IIT Kharagpur), Prof R K Sen (IIT Kharagpur) Prof R Chowdhury (Jadavpur University), Prof. J Mukherjee (Jadavpur University),	Short Term Course on Bioremediation of Industrial Wastes for a Greener World	December 8- 12, 2014
2	Prof. T. Kumar, Director, NIT Durgapur Prof. D. Das, IIT Kharagpur Prof. Siddhartha Datta, Jadavpur University Prof. Abhijit. Bhowal, Jadavpur University Prof. P. Bhattacharya, Ex- Professor, Jadavpur University Prof. Debabrata Mazumder, IEST Shibpur Col.(Retd.) Prabhdeep Singh Sandhu, Registrar, NIT Durgapur Prof. Apurba Dey, NIT Durgapur Prof. Rintu Banerjee, IIT Kharagpur Dr. B. N. Mondal, CSIR-CMERI, Durgapur Dr. P. K. Chatterjee, CSIR-CMERI, Durgapur Prof. P. P. Kundu, University of Calcutta Dr. Jayanta K Biswas, University of Kalyani Prof. R. S. Dhua, BCKV, Kalyani Prof. Somnath Mukherjee, Jadavpur University Dr. Pinaki Sar, IIT Kharagpur Prof. Ramkrishna Sen, IIT Kharagpur	TEQIP-II Sponsored Short Term Course on Technologies in Bioenergy and Environment Sustainability (TBES 2015)	April 13-17, 2015

Department of Chemical Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. P. Bhattacharya Prof S. Datta	Industrial Waste Management and Recovery of Value-added Products	February 6-10, 2014
2	Dr. Bimal Das	Education Utilization Program	December 9-11, 2013
3	Dr. S. Dutta	TEQIP II Sponsored Short Term Course on Bioremediation of I ndustrial Wastes for a Greener World	January 25-26, 2014
4.	Dr. G. N. Halder Dr. M. K. Mandal Dr. Bimal Das	Short Term Program on 'Emerging Trends in Upstream and Downstream Operations of Petroleum Industries'	Dec, 15-19, 2014
5.	Prof C. M. Narayan	All India Students' Engineering Congress -2015	January 30 - 31, 2015

Department of Chemistry

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. B.K. Dutta, Univ of Calcutta Prof. S. Mondal, BCKV All faculty members of Chemistry, NITD Programme Co-ordinator: Saha R. N &	Short-term Training Programme on Instrumental Application and Chemical Analysis for Environmental Samples	November 24- 30, 2014

Chakraborty J.			
2	Dr. D. Mondal, Calcutta University	Seminar on Skill Development in the application of ultrafast laser in chemical sciences and engineering under EAP, TEQIP-II	March 27,2015

Department of Civil Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. A. K. Samanta (Organising Secretary) Dr. Diptesh Das (Convenor)	National Conference on Innovative Design & Construction of Industrial Structures (IDCIS-2014)	April 3-5, 2014
2	Dr. A. K. Samanta (Organising Secretary) Dr. Diptesh Das (Convenor)	Staff development cum Skill development programme on "Computer Aided Drafting using AutoCAD." (CADA-2014)	August 7-8, 2014
3.	Dr. Pronab Roy (Course joint coordinator)	Scientific Computation and Documentation using Open Source Softwares (SCDOSS 2014)	December 01-05, 2014

Department of Computer Science and Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Mr. A. Atarthy Mr. S.K. Saha	Workshop on "Ethical Hacking and Python Programming"	September 10, 2014

Department of Electrical Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Dr. Parimal Acharjee Convenor	International Conference on Industrial Engineering & Science Application (IESA 2014)	April 2-4, 2014
2.	Dr. T. K. Saha (Organizing Secretary)	International Conference on Industrial Engineering Science and Applications - 2014 (IESA-14)	02 – 04 April, 2014
3.	Prof N K Roy	ICT enabled Digital India	21-10-2014
4.	Prof N K Roy	Awareness on National Mission on Education through Information Communication Technology,(NMEICT), at Mallabumi Institute of Technology, at Bisnupur Bankura	14-11-2014
5.	Prof N K Roy	Awareness on National Mission on Education through Information Communication Technology,(NMEICT), at Darjeeling	22-11-14
6.	Prof S Mukhopadhyay and Prof T K Ghoshal	ISTE main workshop on Control System	02-12-2014 to 12-12-2014
7.	Dr. T. K. Saha (Workshop Co-ordinator)	Main Workshop on Control Systems	02 -12 December, 2014

Department of Electronics & Communication Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1.	Prof. B. N. Biswas (Chairman Ed. Div., SKFGI) Prof. A Chakraborty (IIT Kgp) Prof. B K Sarkar (IIT Kgp) Prof. A Bhattacharya (IIT Kgp) Prof. Sushrut Das (ISM Dhanbad) Prof. R K Mishra (Behrampur University, Odisha) Prof. S R Bhadra Choudhuri (IEST) Prof. B Gupta (JU) Prof. G K Mahanti (Coordinator) Dr. S K Mandal (Coordinator) Prof. R Ghatak(Coordinator)	Workshop on Microwave and Antenna Techniques (MAT 2014)	Jun 23-27, 2014
2.	Dr S Maikap, Chang Gung University, Taiwan	Invited Lecture on Resistive Memory Devices	August 22, 2014
3.	Dr A J Pal, IACS, Dr S K Ray, IIT KGP Dr A Kottantharayil, IIT Bombay, Dr S Chatterjee, DeITY etc. Dr R Mahapatra (Coordinator) Dr A K Chakraborty (Coordinator)	Short term course on Emerging Materials and Devices (EMD 2014)* Coordinator:	September 20-24, 2014
4.	Prof. Sibi Raj Pillai (IIT Bombay) Prof. Vinod Prabhakaran (TIFR Mumbai)	TEQIP & ITRA Sponsored Seminar on Information Theoretic Approach to Wireless Communication (as part of EAP)	October 12, 2014
5.	Prof. Bikash Kr. Dey (IITBombay) Mr. Monoj Mishra	TEQIP & ITRA Sponsored Seminar on Recent Advances in Information Theory & Its Applications (as part of ITRA project activity)	October 13, 2014

* With Department of Physics.

Department of Information Technology

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	B. Dutta, ISI Bengaluru S. Bhattacharya, NITK A Dutta, NITD	Semantic Web and Agent Technology Workshop	April 14-18, 2014
2 [!]	D. Nandi, NIT Durgapur M. K. Mandal, NIT Durgapur B. Chakraborty, NIT Durgapur	TEQIP-II sponsored Short Term Course on Computer Vision and Pattern Recognition	June 16-20, 2014
3.	Tarique Sani Chandan Kumar	Workshop on PHP Application Development Frameworks and RPM Packaging and i18n work Future Developers	August 29-30, 2014
4	Sayan Chowdhury Ratnadeep Debnath	Workshop on Python application development	September 1-2, 2014
5*	J. Howlader, NIT Durgapur P. Roy, NIT Durgapur P. Pal, NIT Durgapur	TEQIP-II sponsored Short Term Course on Scientific Computation and Documentation using Open Source Softwares	December 1-5, 2014
6.	D. Nandi, NIT Durgapur S. Choudhury, NIT Durgapur	Self-financed Short Term Course on Information Security and Cryptography	January 5-9, 2015.

[!] With Department of Physics

* With Department of Mathematics & Department of Civil Engineering

Department of Management Studies

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof.M.Roy, Prof. T.Kumar, Prof. P.Chattopadhyay	Workshop on Sustainable Dev.& Mgmt. of MSMEs	27-31 Jan2015

Department of Mathematics

SL. No.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	P. Pal, J. Howlader, and P. Roy	Short term course on “Scientific computation and documentation using open source softwares”	December 1-5, 2014
2	Prof Bimal Roy, Prof S.R. Ghorpade, Prof S Ghosh, Prof M Basu.	One week workshop on “Graph Theory, Coding Theory and Cryptography”	April 07-13 2014
3	Prof. Swapan Bhattacharya, Prof. M. Maity.	One Week Workshop on Advanced Algorithm & optimization	September 15-19, 2014

Department of Mechanical Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. N. B. Hui & Dr. S. Bera (Organizing Secretary)	Intellectual Property Rights and Cyber Security	April 14-18, 2014

Department of Metallurgical and Materials Engineering

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. S. Bera (Coordinator)	One Week Summer School On Intellectual Property Rights and Cyber Security (IPR&CS-2014) ^{*1}	April 14-18, 2014
2	Dr. S. Bera (Coordinator)	International Conference on The First International Conference on Emerging Materials: Characterization & Application (EMCA-2014) ^{*2}	December 04-06, 2014
3	Dr. D.K. Mondal (Secretary)	International Conference on The First International Conference on Emerging Materials: Characterization & Application (EMCA-2014) ^{*2}	December 04-06, 2014

^{*1}With Department of Mechanical Engg., NIT Durgapur

^{*2&3}With Department of Physics, NIT Durgapur and CGCRI Kolkata

Department of Physics

SL. NO.	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. A. K. Meikap, Dr. S. Basu, Dr. S. Sahoo (Coordinator) Dr. P. Maiti, Dr. S. Chatterjee, Dr. A. Maiti, Dr. S. K. Dey, Dr. S. K. Chatterjee,	Short-Term course on “Nanostructured Materials: Theory, Processing and Characterization (SNTPC-2014)”	April 07 – 11, 2014

	Dr. S. K. Pradhan, Dr. M. Kar		
2	Prof. P. Kumbhakar (Co-ordinators) & Dr. M. K. Mondal (Co-ordinator), Prof. T. Kumar, Prof. G. C. Bhar, Prof. D. P. Ojha, Prof. T. Ganguly, Dr. T. Gangopadhyay, Prof. Amitabha Sinha, Prof. N. K. Roy, Dr. Nagahanumaiah, Dr. Udit Chatterjee, Dr. Partha Roy Chaudhuri, Dr. M. K. Mandal	TEQIP-II Sponsored SHORT TERM COURSE on "Fundamentals of Photonics and Optoelectronics (FuPO-2014)"	May 14-18, 2014
3	Dr. Amit K Chakraborty* (Secretary & Coordinator)	Short Term course on Emerging Materials & Devices (EMD-2014)	September 20- 24, 2014
4	Mr. Manishi Mukhopaddhaya, CEO, Anasys Solutions, Kolkata	Industry-Institute-Interaction Programme on "Equipments Chronicle – Bench to Palmtop" held at NIT Durgapur	October 29, 2014
5	Prof. N. K. Roy (Elec. Engg.) & Prof. P. Kumbhakar (Phy)	NMEICT Awareness Programme "NMEICT and Related Issues" at MIT Bishnupur, Bankura	Nov. 14, 2014
6	Dr. Amit K Chakraborty** (Conference Secretary)	First International Conference on Emerging Materials: Characterisation & Applications (EMCA-2014)	December 4-6, 2014
7	Prof. A. K. Meikap, Dr. M. K. Mandal, Dr. S. Sahoo, Dr. H. Chaudhuri, Dr. P. Kumbhakar, Prof. S. Mukhopadhyay	Self-Financed Short-Term Course on "Recent Trends in Materials Science and Electronics (RTMSE– 2014)".	December 10- 14, 2014
8	Prof. Sibaji Raha, Director, Bose Institute, Kolkata	Prof. M. S. Sinha Colloquium held at NIT Durgapur	January 30, 2015
9	Prof. T. Kumar, Prof. G. C. Bhar, Prof. A. K. Mitra, Prof. S. K. Chatterjee, Prof. S. Ram, Dr. B. N. Mandal, Prof. S. Dhar, Prof. A. K. Meikap, Prof. U. Chatterjee, Dr. S. Bandopadhyay, Dr. A. Mondal, NIT Durgapur (Co- ordinator), Dr. H. Chaudhuri, NIT Durgapur (Co-ordinator), Prof. P. Kumbhakar, NIT Durgapur (Co-ordinator)	Short-Term course on "Experimental Techniques for Material Characterization (ETMC– 2015)"	Feb. 27-March 3, 2015

* With Department of Mathematics & Department of Computer Science & Engineering

* With Department of ECE

** With Department of MME

5.7 Collaboration with Academic and Research Institutions

CERN, Geneva:

The following students visited CERN, Geneva for research internship.

Sudipto Majumder, Abhishek Mukhopadhyay, Shivani Bansal, Anurag Bhattacharya, Manisha De, Kumar Gourav Singh

Caledonian College of Engineering, Muscat, Oman:

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

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

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

Department of Biotechnology

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Bose Institute, Kolkata	Research on Cellular Signaling, Inflammation mediated Cancer	Bhattacharjee Ashish, NIT Durgapur Biswas Kaushik, Molecular Medicine, Bose Inst. Pal Mahadeb, Molecular Medicine, Bose Inst.	Joint Research
C-CAMP, NCBS, Bangalore	Rice – Blast Pathosystem	Roy Barman, S., NIT Durgapur; Gowda, M., C-CAMP, NCBS, Bangalore	Research
Central Mechanical Engineering Research Institute (C.M.E.,R.I), Durgapur	Research on Ethanol Production from Water Hyacinth	Dey A., NIT Durgapur and Chatterjee P.K., C.M.E.R.I Durgapur	Joint Research
Central Mechanical Engineering Research Institute (C.M.E.,R.I), Durgapur	Research on Environmental Biotechnology	Dey A., NIT Durgapur and Mondal B.N., C.M.E.R.I, Durgapur	Joint Research
Central Mechanical Engineering Research Institute (C.M.E.,R.I), Durgapur	Research on Tissue Engineering Applications	Dey A., NIT Durgapur and Mondal B.N., C.M.E.R.I, Durgapur	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Biomimetics	Mukhopadhyay, S., NIT, Durgapur and Chatterjee D., CEMRI, Durgapur	Research
Central Mechanical Engineering Research Institute, Durgapur	Biosensor Development	Ghosh, M., NIT DGP, Mistry, K., CSIR-CMERI DGP.	Research
CSIR-CMERI, Durgapur	Biofuels from lignocellulosics	Aikat, K., NIT DGP Chatterjee P.K., CSIR-C.M.E.R.I, Durgapur Ganguly, A., CSIR-C.M.E.R.I, 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

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
IARI, New Delhi	Research on Production of Novel Enzymes	Dutta D., NIT Durgapur, Lata, IARI, New Delhi	Joint research
IARI, New Delhi	Research on microbial diversity in agro-ecological zones	Kazy S K, NIT Durgapur, Archana S, IARI	Research
Indian Institute of Technology Guwahati	Research work 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
JNU, New Delhi	Plant Developmental Biology and Signal Transduction	Chattopadhyay S., NIT-Durgapur and Nandi A., JNU, New Delhi	Research
National Institute of Plant Genome Research, New Delhi	Plant Developmental Biology and Signal Transduction	Chattopadhyay S., NIT-Durgapur and Sinha A, NIPGR, New Delhi	Research
School of Tropical Medicine, Kolkata	Research on Candida infection in HIV patient	Dutta D., NIT Durgapur, Basak S., School of Tropical Medicine, Kolkata, Guha S.K., School of Tropical Medicine, Kolkata	Joint research
The M. S. University of Baroda, Vadodara	Rice – Blast Pathosystem	Roy Barman, S., NIT Durgapur; Chattoo, B. B., MSU, Baroda	Research

Department of Chemical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
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
Calabria University, Italy	Membrane Technology	Pal P.	Collaborative research & publication
Heritage Institute of Technology, Kolkata	Waste Water Treatment	Dutta S.	Collaborative Research & Publication in Elsevier Sc.
Durham University Canada	Pyrolysis & Combustion of Coal & Biomass	Sadhukhan A. K. Gupta P.	Collaborative Research & publication in Elsevier journal
CSIR-CMERI Durgapur	Pyrolysis & Combustion of Coal & Biomass	Sadhukhan A. K. Gupta P.	Collaborative Research
Lappeenranta University of Technology, Finland	Membrane Technology	Pal P.	Collaborative research & publication in Elsevier Sc
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.
IIT Kanpur	Membrane Separation Processes	Mandal M. K.	Collaborative research & publication

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
M.D.University Rohtak	Membrane bio- reactor	Mandal M. K.	Collaborative research & publication
Amity University	Catalytic Membrane Reactor	Mandal M. K.	Collaborative research & publication
M.G.University, Kottayam, Kerala	Synthesis of Bioplastics	C.M.Narayanan	Collaborative Research

Department of Chemistry

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Andhra University, Dept of Inorganic and Analytical chemistry, Visakhapatnam, AP	Speciation of complex formation with biomolecules of metal salts at different pH	Prof. G. Nageswara Rao, Moi, S.C. (NITD)	Experiments are going on
Burdwan University; B.B. College, Assansole	Collaborative Research	Maiti, T.K. Pandey, S. Chakrabarty, J. (NITD)	Paper publication
Calodian College of Engineering, Muscat, Oman	Corrosion Chemistry	Feroz S., Das S.B. and Saha R.N. (NITD)	Jointly supervising Ph.D. student
Central Institute of Mining & Fuel Research, Dhanbad	Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules	Panja S.S (NITD) and Ghosh A. K.	Spectroscopic study of Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules.
Civil Engineering Department North Dakota State University, USA.	Water and Wastewater Treatment	Bezbaruah A. N. Saha R.N. (NITD)	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	Prof. Marilyn M. Olmstead Patra A.K. (NITD)	Single crystal X-ray Diffraction studies on the metal complexes with supporting Schiff base, Amide ligand
Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata, India	Crystal structure determination	Partha Mitra Patra A.K. (NITD)	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. (NITD)	Jointly supervising Ph.D student
Dept. Of Environmental Science, The University of Burdwan, West Bengal	Water and Wastewater Treatment	Gupta S. and Saha R. N. (NITD)	Jointly supervised the Ph.D students in the areas on Environment management.

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Institut des Matériaux Jean Rouxel, Université de Nantes, UMR CNRS 6502, 2 rue de la Houssinière, BP 32229, 44322 Nantes, France	Use of DFT Calculation in our research area	Prof. Xavier Rocquefelte Moi S.C. (NITD)	collaboration for DFT calculation using different Software
Institute of Chemical Technologies and Analytics, Vienna University of Technology, Getreidemarkt, 9/4. 1060 Vienna, Austria, Europe	X-ray structures were determined	Prof. Frank Kubel, Moi S.C. (NITD)	X-ray structures were determined from his Lab. One research has been published in SCI Journal
Johannes Kepler University, Linz	Synthesis of Schiff base ligands and their application	Saha T. K (NITD) and Monkowius U	Chemical sensing of various analytes by Schiff base ligands
Raghunathpur College	Coordination Chemistry	Bhaskar Biswas Maji M. (NITD)	Jointly supervising Ph.D. student
Vienna University of Technology	Kinetics and inorganic reaction mechanism	Linert W. Moi S.C. (NITD)	Biomolecular substitution kinetics in 4d ⁸ and 5d ⁸ metal ion system
Vienna University of Technology, Applied Synthetic Chemistry Dept. Vienna, Getreidmarkt 9/163, Vienna Austria, Europe	Kinetics and mechanism of substitution reaction on d8 metal ion systems	Prof. Wolfgang Linert, Moi, S.C. (NITD)	8 research papers has been published in SCI Journals

Department of Civil Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Lund University, Lund Sweden	Water Resources Engineering	Dwivedi V.K.	Research and Exchange
University of Surrey, UK (Department of Civil and Environmental Engineering,)	Pipe-soil I interaction, Offshore pipelines	Roy, P.	Research and academic visit

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Control Systems, Power Electronics	Banerjee S (NIT) Mazumder S Giri S (CMERI) Saha S	Joint Research.
Central Mechanical Engineering Research Institute, Durgapur	Research on DGA, Gas Sensors	Roy N.K.	Joint research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Research on Drives and Control	Saha T. K.	Joint research
CITCEA-Universitat Politecnica de Catalunya, Barcelona, Spain	Power system	Acharya P.	Collaborative Research
Indian Institute of Technology, Chennai	Online monitoring of Transformer	Roy N. K. Sarathi R	Joint research
Indian Institute of Technology, Kanpur	Personalised e Learning	Roy N K THomas J	Joint research
IIT Kharagpur	Power Electronics, Multilevel Converters	Banerjee S (NIT) Chakroborty C (IIT)	Joint Research.
ISM, Dhanbad	1.Optimization applied to DGS Power Systems 2. Optimization applied to ELD, Unit Commitment, OPF, AGC, PSS and Renewable Energy Sources of Power Systems	Ghoshal S.P.	Joint research
NIT, Rourkela	Path tracing of Mobile Robot	Ghosh S & Parhi DR	Joint Research.
NITTTTR kolkatta	Maglev, AMB	Banerjee, S.	Joint research
NUS Singapore	Control of power electronics converter	Banerjee S Panda S Rathore A	Collaborative research
SVNIT, Surat	1.Optimization applied to AGC with FACTS in Power Systems	Ghoshal S.P.	Joint research
University Kebangsaan Malaysia	1.Optimal Placement of Power Quality Monitors in Distribution Systems 2. Optimal Distribution Network Reconfiguration for Voltage Sag Mitigation	Ghoshal S.P.	Joint research

Department of Electronics & Communication Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Chang Gung University Taiwan	Memory Devices	Mahapatra R	Joint research
Dept. of Information Engg. Universita Degli Study the Parma (University of Parma), Italy	Wireless Sensor Networks Cognitive Radio Networks	Kundu S.	Joint research
School of EECE, Newcastle University UK	Electronic Devices	Mahapatra R.	Joint research

Department of Information Technology

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Indian Statistical Institute, Kolkata	Nanotechnology and giga-scale integration	Mitra D, NIT Durgapur Bhattacharya B. B., ISI Kolkata	Research
Indian Statistical Institute, Bengaluru	Semantic Technology	Dutta A, NIT Durgapur Dutta B., ISI Bengaluru	Research
National Institute of Technology Suratkal	Multi agent systems	Dutta A, NIT Durgapur Bhattacharya S, NITK	Reserach
Winona State University, USA	Knowledge based systems	Chakraborty. B, NIT Durgapur Debnath N. C., WSU, USA	Research
Winona State University, USA	Auction Theory	Mukhopadhyay S., NIT Durgapur Debnath N. C., WSU, USA	Research

Department of Mathematics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Department of Mathematics & Statistics Caledonian (University) College of Engineering, Oman	Reliability in Fuzzy Environment	Pal A., NIT Durgapur and Rizwan S.M.	Joint Research
Department of Mathematics, Aliah University	New Topological Indices of Graphs	Pal A., NIT Durgapur and Nayeem S.M.A.	Joint Research
IIFT Kolkata	Green Supply Chain Management	Pal A., NIT Durgapur and Das P.K	Joint Research
Dept. of Mathematics, Vidyasagar University	Graph Theory	Pal A., NIT Durgapur and Rana A.	Joint Research
Department of Mathematics, Jadavpur University	Functional Analysis	Dey L.K., NIT Durgapur and Das P.	Joint Research
Department of Mathematics, Kalyani University	Block Design Theory	Bagchi S., NIT Durgapur and Basu M.	Joint Research
Dept. of Mathematical Sciences, Tsinghua University, Beijing, China	Uncertainty Theory	Kar S. NIT Durgapur and Sheng Y.	Joint Research
Dept. of Mathematics, Vidyasagar University	Transportation and Inventory Management	Kar S. NIT Durgapur and Maiti M.	Joint Research
Department of Physics, Indian Institute of Technology Kharagpur, India	Convective Instabilities	Pal P. NIT Durgapur and Kumar K., IIT Kharagpur	Joint Research
Dept. of Mathematics, Adamas Institute of Technology, Barasat, West Bengal.	Portfolio Optimization	Sarkar(Mondal) S, NIT,Durgapur and Dr. Rupak Bhattacharya	Joint research
Dept. of Statistics, Viswa Bharati,	Some new Probability Distributions: Properties	Sarkar (Mondal) S., NIT Durgapur and	Joint Research

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Department of Mathematics & Statistics Caledonian (University) College of Engineering, Oman	Reliability in Fuzzy Environment	Pal A., NIT Durgapur and Rizwan S.M.	Joint Research
Department of Mathematics, Aliah University	New Topological Indices of Graphs	Pal A., NIT Durgapur and Nayeem S.M.A.	Joint Research
IIFT Kolkata	Green Supply Chain Management	Pal A., NIT Durgapur and Das P.K	Joint Research
Dept. of Mathematics, Vidyasagar University	Graph Theory	Pal A., NIT Durgapur and Rana A.	Joint Research
Shantiniketan.	and Statistical Inferences	Prof.Sudhangshu Shekhar Maiti.	
Mining Engineering, IEST, Shibpur.	Analysis and Optimization of Coal Mine Production and Operations Management System.	Sarkar (Mondal) S., NIT, Durgapur and Dr. Apurna Kumar Ghosh, IEST, Shibpur.	Joint Research
CSIR-Indian Institute of Chemical Biology, Kolkata, India	Complex Network	Pal P. NIT Durgapur and Dana S. K. IICB Kolkata	Joint Research
Stat Math Unit, ISI Bangalore	Functional Analysis	Dey L.K., NIT Durgapur and Rao TSSK.	Joint Research
Dept. of Mathematics, BCET Durgapur	Transportation and Generalised assignment Problem	Kajla Basu, NIT Durgapur And Sathi Mukherjee	Join Research

Department of Mechanical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute , Durgapur, India	Fluid Mechanics, Heat Transfer and CFD	Pramanik S.	Joint research
Central Mechanical Engineering Research Institute , Durgapur, India	Thermodynamics, Fluid Mechanics and Heat Transfer	Pramanick A. K.	Student exchange, joint research and pedagogy
Duke University	Constructal Law	Pramanick A. K.	Joint research
IEST, Shibpur, India	Fluid Mechanics, Heat Transfer and Microfluidics	Pramanik S.	Joint research
Indian Institute of Technology Kharagpur, India	Droplet Dynamics	Pramanick A. K.	Faculty exchange and joint research
Jadavpur University, India	Non-conventional Energy, Heat Transfer	Pramanick A. K.	Joint research, student exchange
Nationwide, The Family Doctors, Bangalore	Medical Informatics	Hui N. B.	Joint PhD Supervision
NIST, Berhampore	Robotics	Hui N. B.	Joint PhD Supervision
University of Alberta, Canada	Micro-fluidics and Nano-fluidics	Pramanick A. K.	Student exchange and pedagogy

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
University of Ilmenau, Germany	Energy Storage	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
Institut für Materialphysik Universität Münster, Germany	Severe plastic deformation of Al alloys and composites	Bera S.	Collaborative research work
Central Mechanical Engineering Research Institute, Durgapur (with Mr. P Das)	Al alloy and its composites	Bera S.	M. Tech. project work
School of Materials Science and Engg., IEST, Shibpur (with Dr. Arijit Sinha)	Biomaterials	Bera S.	M. Tech. project work
Central Glass and Ceramic Research Institute (with Mr. M. Das)	Development of Ti-Zr-Ni based metallic glass	Bera S.	B. Tech. summer project
National Metallurgical Laboratory, Jamshedpur (with Dr. S. Ghosh Chowdhury)	TWIP Steel	Bera S.	B. Tech. project
Department of Metallurgy and Materials Engg., IEST, Shibpur (with Prof. PP.. Chattopadhyay)	Extension of solid solubility by mechanical alloying	Bera S.	Collaborative research work
Department of Metallurgy and Materials Engg., IEST, Shibpur (with Dr. D. Das)	CNT dispersed Al-based alloy composite	Bera S.	M. Tech. project work
Department of Metallurgy and Materials Engg., IEST, Shibpur (with Dr. S. Ghosh)	TWIP Steel	Bera S.	Collaborative research work
National Institute of Foundry and Forge Technology, Ranchi (with Dr. D. Roy)	Cu-based composites	Bera S.	B. Tech. summer project
CSIR-CMERI	Tribology of (i) rheocast Al alloy and (ii) medium carbon dual phase steel	Show B.K.	(i) Joint M.Tech work (ii) Joint research
CSIR-CMERI	Synthesis and characterization of Al-Mg ₂ Si metal matrix composite	Mondal M.K.	Joint M.Tech work
CSIR-CMERI (with Dr. Himadri Roy)	Reo-pressure die casting of Al-Mg-Si-Sc In-situ TiB ₂ composites	Prof. Ghosh K.S	PhD 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
CMERI, Durgapur	Nanotechnology	Kumbhakar P.	Joint Research/ Joint PhD Guidance
CMERI, Durgapur	Multiferroics materials	Basu S.	Joint Research
CSIR-CECRI, Karaikudi	Supercapacitors	Chakaraborty, A. K.	Joint research
CSIR-CMERI, Durgapur	Carbon nanostructure/ metal oxide composites	Chakraborty, A. K.	Joint Research
EMPA, Swiss Federal Laboratories for Materials Science & Technology	Epoxy composites	Chakraborty A. K.	MoU with NITD for a sponsored Ph.D. student and joint supervision
GSI, Kolkata	Geothermal exploration at Bakreswar geothermal area	Chaudhuri H.	Joint Research
IACS, Kolkata	Nanomaterials, Multiferroics	Basu S.	Joint Research
IISER, Kolkata & Jadavpur University, Kolkata	Seismo-geochemical modeling of Bakreswar geothermal area	Chaudhuri H	Joint Research
IIT, Kharagpur	Materials synthesis and characterization	Chakraborty A. K.	Joint Research
Indian Institute of Science, Bangalore	Synthesis and Characterization of Nanomaterials	Kumbhakar P.	Joint research under UGC-NRM
Jadavpur University	Nanotechnology and Optoelectronics	Mondal A	Joint Research
NASA Ames Research Center, California, USA	Global Earthquake Forecasting System	Chaudhuri H.	Joint Research
National Institute of Technology, Raipur	Condensed Matter Physics	Sahoo S.	Joint Research
Open University, Milton Keynes, United Kingdom	Graphene supercapacitors	Chakaraborty, A. K.	Joint research
Regional Institute of Education, Bhubaneswar (NCERT)	Nuclear Physics, Cosmology, Physics Education & General Physics.	Sahoo S.	Joint Research
Rice University, USA	Nanotechnology	Kumbhakar P.	Joint Research/ publication of paper
National Chiao Tung University, Taiwan	Ultrafast pump-probe spectroscopy	Kumbhakar P.	Joint Research
Triveni Devi Bhalotia College, Raniganj	Nuclear Physics	Sahoo S.	Joint Research
Utkal University, Bhubaneswar	Theoretical High Energy Physics	Sahoo S.	Joint Research
University of Calcutta, Kolkata	Nanotechnology and Optoelectronics	Mondal A	Joint Research
University of Kalyani	Characterisation of nanostructured materials	Chakaraborty, A. K.	Joint Research

University of Liverpool, United Kingdom	Photocatalysis, and energy storage applications	Chakraborty, A.K.	Joint research
University of Nottingham, United Kingdom, University of Calcutta & Jadavpur University, Kolkata	Nanotechnology and Optoelectronics	Mondal A	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 helps the students get Railway Concessions during their vacations.

8.0 FINANCIAL STATUS

8.1 Analysis of Plan and Non-Plan Grants (2014-2015)

Plan (General Component) Grants	– Rs. 2200.00 Lakhs
Non-Plan (Recurring) Grants	– Rs. 5000.00 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	
2011-12	4474.32	2011-12	5171.32
2012-13	4050.00	2012-13	6101.14
2013-14	5058.03	2013-14	7296.61
2014-15 (Unaudited)	2495.34	2014-15	7573.72

9.0 CENTRAL FACILITIES AND SERVICES

9.1 Computer 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, 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. Three ISP's have been providing 300 MBPS bandwidth, distributed throughout the campus by 24x7.

9.2 Workshop

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	98634
	Book Bank	37804
	Bound Vol. of Journals	7744
	SC/ST	934
	ISI	5072
	Gift	3963
	Misc.	1485
	TEQIP Books	4244
	Total	1,59,880
(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	6938
	Book Bank	1194
	Total	8132
(iv) Expenditure Incurred by the Library during 2014-15	BOOKS (In Rs.)	
	General Books	1,90,90,827.00
	Book Bank	91,92,024.00

JOURNALS/MAGAZINES (in Rs.)	
Indian	1,24,840
Foreign	1,66,91,820
	e-journals through INDEST
Magazine	18,608
DELNET Membership	11,500
LIBSYS AnnualSupport And Software Dev	1,20,500

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 paediatrician (once a week), one gynaecologist and obstetrician (once a week), one ENT (once a week), one ophthalmologist (once a week) and one dentist (once a week). All faculty members, staff members and their families as well as the students are benefited from the medical unit. The medical unit provides 24 hours emergency service with a well equipped ambulance at its disposal.

Inside the campus there is a Post Office catering to the needs of residents of the campus.

There is a shopping complex inside the campus which includes a ration shop, a milk booth, one book shop and some shops providing essential commodities.

9.6 Physical Facilities

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

9.7 Games & Sports Facilities

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

9.8 Other Facilities like Hostels, Messes, Staff Quarters

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 each and 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 completed 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 has been taken shortly. 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 also completed. Construction of Chemistry Laboratory-cum-Biotechnology Department and VIP Guest House is in progress. Construction of a 1500 capacity Auditorium and International students Hostel is in progress.

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, 21 M. Tech. programmes, 3 M. Sc. programmes, MCA and MBA programmes are running successfully.
- Many students have won national and international recognition as teachers, industrialists and entrepreneurs in various leading organisations.
- A large number of new laboratories have come up over the years for UG and PG students, Research Scholars and the faculty members of the Institute.
- The Institute was elevated to the National Institute of Technology with Deemed University status.
- NIT Durgapur was declared “Institute of National Importance” by the Government of India.
- The Institute successfully participated in the World Bank assisted TEQIP 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 M Tech programmes for faculty members of the polytechnic institutes and PhD programmes for all faculty.
- 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 sponsoring five scholarships to UG students.
- NIT Durgapur mentored NIT Arunachal Pradesh and GKCIT, Maldah.

10.2 Achievements during the Year

- Three new M Tech programmes were introduced in 2014-15.
- The Institute has been actively participating in the activities of TEQIP-II, a World Bank assisted programme for improvement in quality of technical education and research.
- Collaborative activities are in progress with CERN Geneva, Caledonian College of Engineering, Muscat and a number of premier universities abroad. Faculty visits, students' internship and collaborative research have been taken up. Six pre-final year students did the summer internship at CERN, Geneva.
- The faculty members of the Institute have publication and acceptance of 416 papers in peer-reviewed journals and also published 307 papers in proceedings of national and international conferences in 2014-15.
- Sixty six sponsored projects are being executed by the faculty members presently while 16 have been completed successfully during this year.
- Fifty two PhD degrees were awarded by the Institute in 2014-15.
- Faculty members acted as reviewers for 196 peer-reviewed journals and books.
- 521 B.Tech students were placed through in-campus interviews in the session 2014-2015. In addition, 162 B.Tech students got their second job.
- More than 40 workshop/short-term courses and conferences were organized by various departments of the institute. Nearly five of them were organised jointly by two or more departments.
- Trainee Teacher Scheme was implemented
- The Rajbhasha Samiti of the Institute organized various programmes over the year.

The Tenth Convocation 2014-15

The tenth convocation of the Institute was held on February 11, 2015 in Swami Atmapriyananda, Vice Chancellor, Ramakrishna Mission Vivekananda University, Belur Math, delivered the Convocation Address as the Chief Guest. Professor Amalendu Bhushan Bhattacharyya, Chairman, Board of Governors, presided over the function. In the tenth convocation, 744 B Tech, 235 M Tech, 60 MBA, 87 MCA, 35 MSc and 51 PhD degrees were awarded.

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 & Director (Retd.) Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata – 700 064 (Till 23.11.2014) Prof. Amalendu Bhushan Bhattacharyya Emeritus Professor, Jaypee Institute of Information Technology, Noida (From 24.11.2014)	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	Member
04.	(c)	Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Shashtri Bhawan, New Delhi – 110 001	Member
05.	(d)	Mr. Sanjay Jhunjunwala Chief Executive Officer, Mani Group	Member (From 14.10.2014)
06.	(e)	Prof. Avijit Chakrabarti Professor, Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata – 700 064	Member (till 08-09-2014)
07.	(e)	Dr. (Ms.) Nabanita Das Professor, Advanced Computing & Micro-electronics Unit, Indian Statistical Institute, 203, B. T. Road, Kolkata – 700 108	Member (till 08-09-2014)
08.	(f)	Prof. N.K.Ray Professor, Dept. of Electrical Engineering, NIT, Durgapur Nominee of Senate	Member
09.	(f)	Sri Somnath Karmakar , Assistant Professor, Dept. of Civil Engineering, NIT, Durgapur Nominee of Senate	Member
10.	Section 18 Clause (2)	Col. (Retd.) P. S. Sandhu Registrar, NIT Durgapur	Secretary

Annexure-11.3(a) Finance committee

- | | | |
|----|--|---------------------|
| 1. | <p>Prof. Bikash Sinha
Homi Bhabha Professor, Department of Atomic Energy
& Director (Retd.) Saha Institute of Nuclear Physics,
1/AF, Bidhan Nagar, Kolkata – 700 064
(Till 23.11.2014)</p> <p>Prof. Amalendu Bhushan Bhattacharyya
Emeritus Professor,
Jaypee Institute of Information Technology, Noida
(From 24.11.2014)</p> | Ex-Officio Chairman |
| 2. | <p>Prof. T. Kumar
Director, NIT, Durgapur</p> | Ex-Officio Member |
| 3. | <p>Joint Secretary (TE), Govt. of India
Ministry of Human Resource Development,
Dept. of Higher Education
Shashtri Bhawan, New Delhi – 110 001</p> | Member |
| 4. | <p>Joint Secretary, Integrated Finance Division
Govt. of India
Ministry of Human Resource Development,
Dept. of Higher Education
Shashtri Bhawan, New Delhi – 110 001</p> | Member |
| 5. | <p>Prof. N.K.Ray
Professor, Dept. of Electrical Engineering, NIT,
Durgapur
Representative of BOG</p> | Member |
| 6. | <p>Col. (Retd.) P. S. Sandhu
Registrar, NIT, Durgapur</p> | Member Secretary |

Annexure-11.3(b) Building and Works committee

1.	Prof. T. Kumar Director, NIT Durgapur	Ex-Officio 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 Partha Gangopadhyay, Superintending Engineer, Survey & Design Division , Public Works Department (PWD), India Exchange Place, Kolkata – 700 073 Representative of PWD (Civil)	Member
5.	Shri Satyaki Sen, Director, M.N.Dastur & Co. (Pvt.) Ltd., Faraday House, P – 17, Mission Row Extension, Kolkata – 700 013 Nominee of BOG	Member
6.	Shri Ujjal Mitra, Superintending Engineer (Electrical) P&A, Office of The Chief Engineer (Electrical), ER, Central Public Works Department (CPWD), 234/4, Acharya J.C. Bose Road, Nizam Palace, Kolkata – 700 020 Representative of CPWD (Electrical)	Member
7.	Shri Arun Kumar Bhadra, Superintending Engineer (Electrical), PWD, Electrical Circle- IV, Purta Bhavan, Salt Lake, Kolkata 700 091 Representative of PWD (Electrical)	Member
8.	Shri Ajay Kumar, Superintendent Engineer cum Project Manager, NIT Durgapur Project Circle, Central Public Works Department (CPWD), NIT Campus, Durgapur-713209. Representative of CPWD (Civil)	Member
9.	Dr. S. Haldar Prof. of Chemical Engg. & Dean (Planning & Development), NIT Durgapur	Member
10.	Col. (Retd.) P. S. Sandhu, Registrar, NIT Durgapur	Ex-Officio Member Secretary

Annexure-11.3(c) List of Senate members as on 31/03/2015

NAME	E-MAIL ADDRESS	TELEPHONE
Prof. T Kumar Director and Chairman-Senate	director@admin.nitdgp.ac.in	9434788001
NOMINATED MEMBERS		
Sri S Chatterjee Managing Director Innovative Heat Handling Pvt. Ltd. CG-106, Salt Lake City, Kolkata – 700 091	samiran45@gmail.com	9831016604
Prof A K Chakrabarti Saha Institute of Nuclear Physics 1/AF, Bidhannagar, Kolkata – 700 064	abhijit1960@gmail.com	9831055624
Dr M Dutta Prof and HOD, Deptt. Of Humanities BESU, Shibpur, Howrah- 711 103	madhumatidutta@yahoo.co.in	9836853402
BIOTECHNOLOGY		
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Prof P P Sengupta, HOD	pps42003@yahoo.com	9434788045
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Prof D K Mondal	dk_mondal2003@yahoo.co.in	9434788003
Dean –Academic		
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Registrar & Secretary of Senate		

Annexure - 11.4(a) Ongoing sponsored projects**Department of Biotechnology**

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Role of a novel signaling complex in regulating IL-13-induced 15 lipoxygenase expression in monocytes	Bhattacharjee, A.	DST-SERB	47.39 lakhs	2014
Role of 15-lipoxygenase in the pathogenesis of several diseases	Bhattacharjee, A.	Ramalingaswami Fellowship (DBT)	82 lakhs	2012
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 cross talk between MAP Kinase and light signaling pathways in Arabidopsis thaliana	Chattopadhyay, S. and Sinha, A.K., NIPGR, New Delhi	DST	39 lakhs	2012
Investigation of the interconnecting roles of ZBF1/MYC2 and HY5 in Arabidopsis seedling development and disease defense	Chattopadhyay, S. and A.K.Nandi, JNU, New Delhi	DBT	50 lakhs	2014
Development of green technology for improvement of paper quality and to optimize the generation of genotoxic effluents	Dasgupta, D, Dey, A. And Mandal, Tamal	DBT	26 lakhs	2012
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	~ 68 lakhs	2012
Studying Fanconi Anemia; A Rare Disorder :For Understanding The Mitochondrial Roll in Genomic Instability and Cancer	Mukhopadhyay, S.S.	DBT	76 lakhs	2012
Secondary metabolism and pathogenesis in rice blast fungus	Roy Barman, S.	DBT	~ 40 lakhs	2013
Antibody and RNAi-based resistance to rice blast fungus	Roy Barman, S.	DBT	~ 45 lakhs	2013

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Abatement of Fluoride from Ground Water to Supply Safe Drinking Water to Rural People of West Bengal.	Dutta S., Adhikari K.	DST, Govt. of West Bengal	12.37 lakh	2013
Treatment of Coke Oven Waste Water Using Hybrid Technology	Dutta S.	Indian Institute of Chemical Engineers	1.0 lakh	2013
Phycoremediation of Cyanide from Coke-oven Wastewater and CO ₂ Sequestration from Waste gas using a Mixed Consortium of Green Algae and Cyanobacteria: An integrated approach	Dutta, S. And Ghanta, K. C	Department of Science and Technology	41.588 lakhs	2015

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Isolation and Characterization of Micro-organisms/Micro-algae from North East region and Eastern Coal mines for Bio-Sequestration of CO ₂ and its Utilization towards Generation of Bio-fuel	Halder G. N. Mandal M. K. Saha P	DBT-Govt of India	69.75 Lakhs	2013
Studies on Upgrading of Water Quality in Coal mining areas of Meghalaya and Eastern Coal mines by Chemisorption and Bioremediation towards Mitigation of Unscientific Coal mining	Halder G. N. Mandal T Sikder J	DBT- Govt of India, New Delhi	60.0 lakhs	2013
Bioremediation of oil spills and removal of aromatic hydrocarbons using marine microorganisms with nanoparticles: Treatment efficiency, optimization, modeling and simulation studies	Halder G. N. Saha P	Ministry of Earth Science, Govt of India, New Delhi	39.72 lakhs	2013
Optimization on Defluoridation of Contaminated Groundwater by Bioremediation	Halder G. N.	DBT- Govt of India, New Delhi	25.27 lakhs	2013
Nonlinear Dynamics of Bubble Growth and Collapse in Natural Circulation Boiling Loop	Paruya S.	SERB-DST, Govt. of India	38.67 Lakhs	2013

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Interaction of Bio-active Molecules With Pt(II) and Pd(II) Complexes of Bidentate Supporting Ligands: Their Kinetic, Mechanism and Speciation Studies"	Moi S.C.	DST, Govt. Of India	42.592 lakhs	2013
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.	DST, Govt. Of India	10.67 lakhs	2012
Development of a Remedial Scheme for the Contaminated Ground Water Specially for Pesticides, Nitrate and Arsenic with Surface Modified Nanoscale Zero Valent Iron (nZVI) and Nano-Fenton's Oxidation	Saha R.N.	DST, Govt. Of India	28.8 lakhs	2013

Department of Civil Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount	Starting Year
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
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

Department of Computer Applications

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies” in collaboration with JU Kolkata, CU Kolkata, BESU Shibpur, KIIT Bhubaneswer and FGIET Raebareli.	Anirban Sarkar	Information Technology Research Academy (ITRA) Ministry of Communications and Information Technology, Govt. of India	NITD Outlay: INR 38.96 [Total outlay: INR 433.98 Lakhs]	September 2013
Post-Disaster Situation Analysis and Resource Management Using Delay-Tolerant Peer-to-Peer Wireless Networks (DISARM)”	Sujoy Saha (Co-Investigator)	Information Technology Research Academy (ITRA) Ministry of Communications and Information Technology, Govt. of India	NITD Outlay: INR 54.11 [Total outlay: INR 316.24 Lakhs]	September 2013

Department of Computer Science and Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Post-Disaster Situation Analysis and Resource Management Using Delay-Tolerant Peer-to-Peer Wireless Networks (DISARM)	Dr. Subrata Nandi, Co PI: Mr. Sujoy Saha (Dept. of CA).	ITRA, Media Lab Asia	Rs.54.11L	2013

Department of Electrical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Development of Information Communication technology (ICT) enabled High Voltage Laboratory at National Institute of Technology, Durgapur	Roy N K	MHRD, Govt. of India	Rs 7 Lakhs	2013
Development of Personalised and Performance based E-Learning tool for existing E-resources	Roy N K	Department of Electronics and Information Technology (DeITY), Govt of India	Rs 99 lakhs	2013
Developing Suitable Pedagogical Methods for Various Classes, Intellectual Calibres and Research in E-Learning” under National ICT Mission	Roy N K	MHRD, Govt. of India	Rs 83 lakhs	2013

Department of Electronics and Communication Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
SMDP C2SD	Mal Ashis Kumar (Chief Investigator) Mahapatra Rajat (Co-Chief Investigator)	DeitY	1.5 Crore (Apprx)	2014
DST-FIST	All faculty members of the department	Department of Science and Technology, Government of India.	Rs 108 Lakhs	2011
Development of Antennas for Ultrawideband Pulse Based Wireless Communication and Imaging Systems	Ghatak Rowdra (PI)	DST Fast Track for Young Scientist	16.86 Lakhs	2010
Uncoordinated, secure and energy aware access in distributed wireless networks	Kundu Sumit (PI)	ITRA, Department of Information and Technology	34 Lakhs	2014
Studies on Novel Optimization Techniques to Synthesize Radiation Pattern of Antenna Arrays	Mandal Durbadal (PI)	SERB - DST	34.792 Lakhs	2013

Department of Information Technology

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Agent Based Algorithmic Approach for Modeling and Optimization of Indian Railway System	Dutta, A.	Department of Science and Technology, Govt. of India	Rs. 16.50 lakhs	2014
Development of Personalized and Performance based E-Learning tool for existing E-resources.)	Dutta, A.	Department of Electronics and Information Technology (DeitY), Govt. of	Rs. 1 Crore	2013

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
India				

Department of Mathematics

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Hybrid Modelling of Uncertainty Analysis in Environmental Risk Assessments	Samarjit Kar	BRNS, DAE	16.05 Lakhs	2013

Department of Mechanical Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Forward and Reverse Modelling of Flow Forming Process: Comparison between FE-based and SC-based Modelling	Hui N.B.	DRDL, Hyderabad	9.744lakhs	December 2014
Investigation of Heat Transfer and Fluid Flow Phenomenon of Artificially Roughened Duct Using Liquid Crystal Thermography System	Layek A.	DST – SERB	31.84 lakhs	Oct 2013

Department of Metallurgical and Materials Engineering

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (Rs)	Starting Year
An investigation on accelerated spheroidization and mechanical property evaluation of high carbon steel under cyclic forced air cooling	Dr. J. Maity and Dr. B. K. Show	SERB-DST (Extra Mural)	Rs.31,04,700/-	2015
Development of ceramic particle dispersed Aluminum alloy composite	Dr. S. Bera	DST	Rs. 19,20,000/-	October 2012
Study on Structure Property Correlation of Pressureless Sintered ZrB ₂ -Based Ultrahigh Temperature Ceramic Composites	Dr. Manab Mallik	DST-SERB	Rs. 12,00,000/-	2013
IN-VITRO and IN-VIVO Study of Electrochemical Behaviour of Dental Amalgams of Various States in Oral Environments	Dr. Nivedita Dutta Chowdhury Prof. K. S. Ghosh (Mentor)	WOS-A, DST	Rs. 16,99,000/-	October 2013
MD-stochastic model based design and development of nanofluids for advanced heat transfer applications	Dr. M.M. Ghosh	DST	Rs. 17,70,000	2013

Department of Physics

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
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Development of polymer nanocomposites of graphene nanoplatelets	Chakraborty, AK	DST - SERB Fast Track Award for Young Scientist	27.6 Lakhs	2011
Graphene Assisted Low-cost Energy-efficient Solar cells	Chakraborty, AK	DST-UKIERI, UK-India joint program	21.6 lakhs	2014
Interface & load transfer of carbon nanoparticle reinforced epoxy nanocomposites	Chakraborty, AK	EMPA, Swiss Federal Laboratory for Materials Science & Technology	27 lakhs	2014
Exploration of Helium and Geothermal Power at Bakreswar - Tantloi Geothermal Area	Chaudhuri Hirok (Project Manager)	MHRD (NIT Durgapur) Govt. of India	92.00 Lakh	2014
Earthquake Precursory Study at Bakreswar (WB), Tantloi, (Jharkhand), Baratang (A&N), Tatta Pani (J&K)	Dr. Hirok Chaudhuri (Project Manager)	MHRD (NIT Durgapur) Govt. of India	59.00 Lakh	2014
DST-FIST program of department of Physics	Meikap A K (Co-ordinator), Kumbhakar P., Mandal, M. K., Sahoo S, Basu S& Chakraborty, AK	DST-FIST	82.00 Lakh	2011
A Study on Electron Dephasing Scattering Rate in Disordered Alloys and A15 Compounds at Low Temperature	Meikap A K (Principal Investigator) & Basu S. (Co-Invest.), Mandal M. K. (Co-Invest.)	DST	36,07,600.00	2013
Development and Characterization of Polymer-Multiferroic Nanocomposites for Enhance Magneto-Dielectric Behavior at Radio Frequency	Meikap A K (Principal Investigator) & S Sahoo (Co-Invest.)	DAE-BRNS	24,80,750.00	2014
Synthesis of In ₂ O ₃ Nano-Wire assembly and UV detector with sanction	Mondal A (P.I)	DST-SERB	53,96,000/-	2012
Phenomenology of Z' boson, B mesons and Higgs boson	Sahoo S. P.I.)	NIT Durgapur	10.00 lakhs	2014
Development and characterization of polymer-multiferroic nanocomposites for enhanced magneto-dielectric behavior at radio frequencies	S. Sahoo (Co – P.I.)	BRNS, Govt. of India.	24, 80,750/-	2014

Annexure - 11.4(b) Projects completed during 2014-15

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring authority
Investigation of functional overlap between ZBF1/MYC2 and ZBF2/GBF1 in Arabidopsis seedling development and light regulated gene expression	Chattopadhyay S.	DST-SERC

Title of the Project	Investigator(s)	Sponsoring authority
Characterization and optimization of pigment production from an isolated strain	Dutta D. Chaudhuri S.	UGC-Major Project
Over-riding drug resistance in visceral leishmaniasis by combinatorial therapy with sub-optimal 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
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
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 project
Functional genomics of GPCRs in rice blast fungus <i>Magnaporthe oryzae</i>	Roy Barman S.	DST–SERB

Department of Chemical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Treatment of Coke Oven Waste Water Using Hybrid Technology	Dutta S.	Indian Institute of Chemical Engineers
Study on Microporous characteristics of activated carbon for the development of PSA refrigeration system employing activated carbon-nitrogen pair	Halder G. N.	DST-Govt of India
Capturing Oscillations of Void Fractions in Boiling Natural Circulation Loop using Impedance Probe & LDA	Paruya S. Gupta, P. Sarkar, J. P.	SERB-DST, Govt. of India

Department of Chemistry

Title of the Project	Investigator(s)	Sponsoring authority
A study on the corrosion inhibition properties and adsorption characteristics of some recognitive biomolecules on the metals	Sukul D.	DST-SERC

Department of Computer Science and Engineering

Title of the Project	Investigator(s)	Sponsoring authority
DST-FIST	Roy, S., (Coordinator) Sanyal, G., Sen, B., Guhathakurta, P.K.	DST, GOI

Department of Electrical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Application of Non-linear Robust Control Strategies for Air-Flow Control	Koley C.	DST - SERC Fast Track Project for Young Scientist

Department of Management Studies

Title of the Project	Investigator(s)	Sponsoring authority
RBCD PROJECT	Prof.M.Roy	Govt.W.B.

Department of Mechanical Engineering

Title of the Project	Investigator(s)	Sponsoring authority
Design and Development of Adaptive Motion Planners for Multiple Mobile Robots	Hui N.B.	DST - SERC Fast Track Project for Young Scientist

Department of Physics

Title of the Project	Investigator(s)	Sponsoring authority
High Efficiency In ₂ O ₃ /Si Nano-wire based hetero junction solar cell	Mondal A. (P.I.)	AICTE
Modernization of Computer Laboratory	Mondal A.(P.I.), Bhowmik M.	AICTE

Annexure–11.4(c) i. Research papers published in peer-reviewed journals during 2014-15**Department of Biotechnology**

1. Abbas, N., Chattopadhyay, S., 2014. CAM7 and HY5 genetically interact to regulate root growth and abscisic acid responses. *Plant Signal Behav* 9, e29763.
2. Abbas, N., Maurya, J.P., Senapati, D., Gangappa, S.N., Chattopadhyay, S., 2014. Arabidopsis CAM7 and HY5 physically interact and directly bind to the HY5 promoter to regulate its expression and thereby promote photomorphogenesis. *Plant Cell* 26, 1036-1052.
3. Basak, B., Bhunia, B., Dey, A., 2014a. Studies on the potential use of sugarcane bagasse as carrier matrix for immobilization of *Candida tropicalis* PHB5 for phenol biodegradation. *International Biodeterioration & Biodegradation* 93, 107-113.
4. Basak, B., Bhunia, B., Dutta, S., Chakraborty, S., Dey, A., 2014b. Kinetics of phenol biodegradation at high concentration by a metabolically versatile isolated yeast *Candida tropicalis* PHB5. *Environ Sci Pollut Res Int* 21, 1444-1454.
5. Biswas, G., Das, R., Kazy, S.K., 2015. Chromium bioremediation by *Alcaligenes faecalis* strain P2 newly isolated from tannery effluent. *Journal of Environmental Research and Development* 9, 1-9.
6. Cathcart, M.K., Bhattacharjee, A., 2014. Monoamine oxidase A (MAO-A): a signature marker of alternatively activated monocytes/macrophages. *Inflammation & Cell Signaling* 1, e161.
7. Das, R., Choudhary, P., Singh Oberoi, A., Dey, P., Kazy, S.K., 2014a. Community composition and polycyclic aromatic hydrocarbon (PAH) biodegradation potential of microorganism isolated from oily sludge. *J. Environ. Res. Develop.* 9, 38-49.
8. Das, R., Dey, P., Choudhary, P., Kazy, S.K., 2014b. Benzene utilization as growth substrate by a newly isolated *Aerococcus* sp. strain BPD-6 indigenous to petroleum hydrocarbon contaminated oily sludge. *International Journal of Scientific & Engineering Research* 5, 109-118.
9. Das, S., Ganguly, A., Dey, A., Ting, Y., Chatterjee, P.K., 2014c. Characterization of water hyacinth biomass and microbial degradation of the biomass under solid state fermentation using a lignocellulolytic fungus (*Alternaria* spp. NITDS1). *J Chem Bio Physic* 4, 2279-2293.
10. Dutta, S., Basak, B., Bhunia, B., Chakraborty, S., Dey, A., 2014. Kinetics of rapamycin production by *Streptomyces hygroscopicus* MTCC 4003. *3 Biotech* 4, 523-531.
11. Gupta, N., Prasad, V.B., Chattopadhyay, S., 2014. LeMYC2 acts as a negative regulator of blue light mediated photomorphogenic growth, and promotes the growth of adult tomato plants. *BMC Plant Biol* 14, 38.
12. Kullu, J., Dutta, A., Constales, D., Chaudhuri, S., D., D., 2014. Experimental and modeling studies on microwave-assisted extraction of mangiferin from *Curcuma amada*. *3 Biotech* 4, 107-120.
13. Misra, K., Ghosh, G.K., Mitra, I., Mukherjee, S., Reddy B, V.P., Linert, W., Misini, B., Bose K, J.C., Mukhopadhyay, S., Moi, S.C., 2015. Interaction of bio-relevant thio-ether and thiols with dinuclear Pd(II) complex: kinetics, mechanism, bioactivity in aqueous medium and molecular docking. *RSC Adv.* 5, 12454-12462.

14. Mondal, B., Mandal, N., Mondal, S., Mukherjee, K., Mukhopadhyay, S.S., Dey, A., 2014a. Optimisation of process parameters for fabrication of nanocrystalline TiO₂-hydroxyapatite based scaffold using response surface methodology. *Advances in Applied Ceramics* 113, 129-138.
15. Mondal, S., Mondal, A., Mandal, N., Mondal, B., Mukhopadhyay, S.S., Dey, A., Singh, S., 2014b. Physico-chemical characterization and biological response of *Labeo rohita*-derived hydroxyapatite scaffold. *Bioprocess Biosyst Eng* 37, 1233-1240.
16. Mondal, S., Sinha, S., Aikat, K., Halder, G., 2015. Adsorption thermodynamics and kinetics of ranitidine hydrochloride onto superheated steam activated carbon derived from mung bean husk. *Journal of Environmental Chemical Engineering* 3, 187-195.
17. Mukherjee, S., Mandal, N., Dey, A., Mondal, B., 2014. An approach towards optimization of the extraction of polyphenolic antioxidants from ginger (*Zingiber officinale*). *J Food Sci Technol* 51, 3301-3308.
18. Neogi, S., Dey, A., Ghosh, S., Ganguly, A., Chatterjee, P.K., 2014. Effect of *Candida Shehatae* in the conversion of Lignocellulosic ethanol. *J Glob Bio Sci* 3, 1076-1083.
19. Neve, J.D., Goswami, G., Dutta, A., Chaudhuri, S., D., D., 2014. A statistically motivated choice of process parameters for the improvement of canthaxanthin production by *Dietzia maris* NIT-D (accession number: HM151403). *Revista Mexicana De Ingenieria Quimica* 13, 595-603.
20. Pal, S., Bhattacharjee, A., Ali, A., Mandal, N.C., Mandal, S.C., Pal, M., 2014. Chronic inflammation and cancer: potential chemoprevention through nuclear factor kappa B and p53 mutual antagonism. *J Inflamm (Lond)* 11, 23.
21. Paul, D., Kazy, S.K., Banerjee, T.D., Gupta, A.K., Pal, T., Sar, P., 2015a. Arsenic biotransformation and release by bacteria indigenous to arsenic contaminated groundwater. *Bioresour Technol*.
22. Paul, D., Kazy, S.K., Gupta, A.K., Pal, T., Sar, P., 2015b. Diversity, metabolic properties and arsenic mobilization potential of indigenous bacteria in arsenic contaminated groundwater of West Bengal, India. *PLoS One* 10, e0118735.
23. Paul, D., Sar, P., Kazy, S.K., Pal, T., 2014. Molecular survey on bacterial diversity in arsenic contaminated subsurface sediment in West Bengal, India. *J. Environ. Res. Develop.* 9, 15-23.
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25. Pranaw, K., Singh, S., Dutta, D., Chaudhuri, S., Ganguly, S., Nain, L., 2014b. Statistical Optimization of Media Components for Production of Fibrinolytic Alkaline Metalloproteases from *Xenorhabdus indica* KB-3. *Biotechnol Res Int* 2014, 293434.
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27. Rathour, R., Das, P., Aikat, K., 2015. Microwave-assisted synthesis of graphene and its application for adsorptive removal of malachite green: thermodynamics, kinetics and isotherm study. *Desalination and Water Treatment*, 1-10.
28. Satheesh, S.K., R, K.G., Ghosh, M., 2014. Comparative in-silico genome analysis of *Leishmania (Leishmania) donovani*: A step towards its species specificity. *Meta Gene* 2, 782-798.
29. Saha, N., Samanta, A.K., Chaudhuri, S., D., D., 2015. Characterization and antioxidant potential of a carotenoid from a newly isolated yeast. *Food Science and Biotechnology* 24, 117-124.
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* Repeated in other departments

Department of Chemical Engineering

1. Basu, P., Sadhukhan, A. K., Gupta, P., Rao, S., Dhungana, A., Acharya, B., 2014. An experimental and theoretical investigation on torrefaction of a large wet wood particle. *Bioresource Technology* 159, 215-222.

2. Bera, A., Kumar, T., Ojha, K., Mandal, A., 2014. Screening of Microemulsion Properties for Application in Enhanced Oil Recovery, Fuel, Elsevier Publication 121, 198-207.
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10. Das, B., Ganguly, U. P., Bar, N., and Das, S. K., 2015. Holdup prediction in inverse fluidization using non-Newtonian pseudoplastic liquids: Empirical correlation and ANN modelling. Powder Technology, 273, 83–90.
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49. Sinha, S., Chatterjee, S. K., Ghosh, J., Meikap, A. K. 2015. Electrical transport properties of polyvinyl alcohol - selenium nanocomposite films at and above room temperature. *J. Mater. Sci.*, 50, 1632-1645.
50. Tiwari, A.K., Mondal, A., Mahajan, B.K., Choudhuri, B., Goswami, T., Sarkar, M.B., Chakrabartty, S., Ngangbam, C., Saha, S. 2015. Improved photo detection using Zigzag TiO₂ nanostructure as an active medium, *Journal of nanoscience & nanotechnology*, 15(7), 5099-5104.
51. Tiwary, C. S., Saha, S., Kumbhakar, P., Chattopadhyay, K. 2014. Observation of combined effect of temperature and pressure on cubic to hexagonal phase transformation in ZnS at nanoscale. *Cryst. Growth Des.*, 14 (9), 4240–4246.
52. Usha, K., Mondal, B., Sengupta, D., Das, P., Mukherjee, K., Kumbhakar, P. 2014. Development of multilayered nanocrystalline TiO₂ thin films for photovoltaic application. *Optical Materials*, 36 (6), 1070-1075.
53. Usha, K., Mondal, B., Sengupta, D., Kumbhakar, P. 2014. Photo-conversion efficiency measurement of Dye-sensitized Solar Cell using Nanocrystalline TiO₂ thin film as photo-anodes. *Measurement*, 61, 21-26.
54. Verma, D., Kole, A.K., Kumbhakar, P. 2015. Red shift of the band-edge photoluminescence emission and effects of annealing and capping agent on structural and optical properties of ZnO nanoparticles. *Journal of Alloys and Compounds*, 625, 122-130.

* Repeated in other departments

Annexure–11.4(c) ii. Research papers accepted for publication in peer-reviewed journals during 2014-15

Department of Biotechnology

1. Bera, S., Chaudhuri, S., Dutta D. 2015. Assessment of free radical scavenging activities of mangiferin from *Curcuma amada* obtained by non-conventional extraction methods: A comparative study, *Indian Journal of Biotechnology*, (Accepted, manuscript id: IJBT#104) Jan 19, 2015.
2. Goswami, G., Chaudhuri, S., Dutta D. 2015. Studies on the Stability of a Carotenoid Produced by a Novel Isolate using Low Cost Agro-Industrial Residue and its Application in Different Model Systems. *LWT - Food Science and Technology*, (*Article in press*) doi:10.1016/j.lwt.2015.03.017. March 10, 2015
3. Hazra, M., Dasguptamandal, D., Mandal, T., Bhuniya, S. Designing polymeric microparticulate drug delivery system for hydrophobic drug Quercetin. *Saudi Pharmaceutical Journal*. Elsevier 2015. (In Press) Jan 01, 2015

* Repeated in other departments

Department of Chemical Engineering

1. Hazra, M., Dasgupta Mandal, D., Mandal, T., Bhuniya, S., 2015. Designing polymeric microparticulate drug delivery system for hydrophobic drug Quercetin. *Saudi Pharmaceutical* (In Press).
2. Pridarshinee, R., Kumar, A., Mandal, T., Dasgupta Mandal, D., Improving the prospective of raw eucalyptus kraft pulp for industrial application through autochthonous bacterial mediated delignification. *Industrial Crops and Products*. (In Press)

- Narayanan, C. M., 2014. Studies on Computer Aided Design and Analysis of Three Phase Semifluidized Bed Bioreactors , Chemical Product and Process Modeling, February, 2015, DOI 10.1515/cppm.2014 – 0029.

Department of Chemistry

- Chaudhuri, P., Ghosh, A.K. and Panja, S.S. 2015. Study of Molecular Complex Formation of Coal Derived Asphaltene with TCNQ in Homogeneous and Heterogeneous Media by UV-Vis and Fluorescence Spectroscopic Studies. Journal of Dispersion Science and Technology.
- Dutta, A., Panja S. S., Nandi, M. M. and Sukul, D. 2015. Effect of optimized structure and electronic properties of some benzimidazole derivatives on corrosion inhibition of mild steel in hydrochloric acid medium: electrochemical and theoretical studies. J. Chem. Sci.
- Pandey, S., Chakrabarty, J., Maiti, T.K. 2014. The FAME profiles of Cadmium resistant Ochrobactrum sp. And Lead and Arsenate resistant Bacillus spp. National Academy Science Letters. Accepted in January 2015.
- Roy, C., Chakrabarty, J., Panigrahi, L. 2015. Validated Stability-Indicating RP-HPLC Method for Estimation of Degradation Behaviour of Organic Peroxide and Third Generation Synthetic Retinoids in Topical Pharmaceutical Dosage Formulation. Sci Pharm., doi:10.3797/scipharm.1412-10.

Department of Civil Engg.

- Nanda, R.P., Shrikhande, M., Agarwal, P., 2015. Low cost base isolation system for seismic protection of rural buildings, Practice Periodical on Structural Design and Construction (ASCE), in press.
- Sengupta S, Datta, A.K., Topdar P., 2015. Structural Damage Localisation by Acoustic Emission Technique: A State of the Art Review, Latin American Journal of Solids and Structures. Accepted for publication in March 2015.

Department of Computer Science and Engineering

- Kumar, R.K., Garain, J., Sanyal, S., Kisku, D.R.,2015. Estimating normalized attention of viewers on account of relative visual saliency of faces (NRVS).International Journal of Control and Automation.Accepted on March 09, 2015
- Garain, J., Kumar, R.K., Sanyal, S., Kisku, D.R.,2015. Cohort selection using max-centroid-clustering (MCC) method to enhance the performance of a multimodal biometric system. International Journal of Control and Automation.Accepted on March 19, 2015
- Mukherjee, S., Roy, S., 2015. SAT based solutions for detailed routing of Island style FPGA architectures. Microelectronics Journal (Elsevier).
- Mukherjee, S., Roy, S., 2015. Nearly 2-SAT solutions for segmented channel routing. IEEE Transactions on Computer Aided Design of Integrated Circuits (TCAD).
- Ray Sarkar, A., Sanyal, G., Majumder, S., 2015. A low-cost eye tracking systemforpatientswithstroke. InternationalJournalofAdvanced Computing.
- Samanta, D., Sanyal, G., 2015. An adaptively entropy based unsupervised woodland classificationforSARimages.International Journal of Information and Communication Technology Research.
- Sen, B., Goswami, M., Mazumdar, S., Sikdar, B.K., 2015. Towards modular design of reliable QCA logic circuit using multiplexer. Computers and Electrical Engineering Journal, Elsevier.

Department of Electrical Engineering

- Banerjee, S., Sarkar, M.K., Ghosh, A., 2015. System and Method for obtaining simultaneous levitation and rotation of a ferromagnetic object. J. Inst. Eng. India Ser. B .(Springer). Month of Acceptance: March 2015.
- Sarkar, T, Ray, R., Khondekar, M.H, Ghosh, K., Banerjee, S. 2015. Chaos and Periodicity in Solar Wind Speed: Cycle 23. Astrophysics and Space Science. (Springer). Month of Acceptance: March 2015.
- Guha, D., Roy, P., Banerjee, S. 2015. Application of modified biogeography based optimization in AGC of an interconnected multi-unit multi-source AC-DC linked power system. International Journal of Energy Optimization and Engineering (IJEEO). Month of Acceptance: March 2015.
- Chakraborty, A., Dey, J. 2015. Robust Stabilization of Non-minimum Phase System with Periodic Control. International Journal of Emerging Technology and Advanced Engineering. Month of Acceptance: March 2015.

5. Khan, N.A., Ghosh, S., Ghoshal, S.P. 2015. Testing of a Novel Load Flow Algorithm for Different Radial Distribution Systems , International Journal of Electrical Engineering, Springer-Verlag Berlin Heidelberg DOI 10.1007/ s00202-012-0258-2.
6. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P. 2015. Optimal Selection of Components Value for Analog Active Filter Design Using Simplex Particle Swarm Optimization. International Journal of Machine Learning and Cybernetics(Springer). DOI: 10.1007/s13042-014-0299-0.
7. De, B. P., *Kar, R., *Mandal, D., Ghoshal, S. P. 2015. Optimal Analog Active Filter Design Using Craziness based Particle Swarm Optimization Algorithm. International Journal of Numerical Modeling: Electronic Networks, Devices and Fields, (Wiley). DOI: 10.1002/jnm.2040. *
8. Mallick, Soumen., Kar, R., Mandal, D., Ghoshal, S. P. 2015. Optimal sizing of CMOS analog circuits using gravitational search algorithm with particle swarm optimization, International Journal of Machine Learning and Cybernetics (Springer). DOI 10.1007/s13042-014-0324-3. *
9. Mallick, Soumen., Kar, R., Mandal, D., Ghoshal, S. P. 2015. CMOS Analog Amplifier Circuits Optimization using Hybrid Backtracking Search Algorithm with Differential Evolution. Journal of Experimental & Theoretical Artificial Intelligence (Taylor & Francis). Date of Acceptance: 15.02.2015. *
10. Bera, R., Mandal, D., Kar, R., Ghoshal, S. P. 2015 Optimal design of concentric hexagonal array antenna using Improved Particle Swarm Optimization technique. Journal of Network and Innovative Computing (JNIC). *
11. Saha, S. K., *Kar, R., *Mandal, D., Ghoshal, S. P. 2015. Optimal IIR Filter Design using Gravitational Search Algorithm with Wavelet Mutation. Journal of King Saud University, Computer and information sciences (Elsevier). <http://dx.doi.org/10.1016/j.jksuci.2014.03.002>. *
12. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P. 2015. A Novel Low Power 8T SRAM Cell Design Using Lower and Upper Self Controllable Voltage Level Techniques in 45 nm Technology. International Journal of Computer Aided Engineering and Technology(Inderscience). Date of Acceptance: 09.05.2014. *
13. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P. 2015. Characteristic Analysis of a Novel Low Power 10T SRAM Cell during Read and Write Operations, International Journal of Computer Aided Engineering and Technology (Inderscience). Date of Acceptance: 24.10.2013. *
14. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P. 2015. A 12T MT-CMOS Low Power and Low Leakage SRAM cell. International Journal of Computer Aided Engineering and Technology (Inderscience). Date of Acceptance: 01.11. 2014. *
15. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P. 2015. A new design method based on Firefly Algorithm for IIR System Identification Problem. International Journal of Computer Aided Engineering and Technology (Inderscience). Date of Acceptance: 01.03. 2014. *

Department of Electronics & Communication Engineering

1. Chandra, A., Blumenstein, J., Mikulasek, T., Marsalek, R., Prokes, A., Zemen, T., Mecklenbrauker, C., 2015. Use of CLEAN in time-domain ultra wide band channel sounding for intra vehicular environments. IET Intelligent Transport Systems.
2. Kundu, A., Bhattacharjee, A. K. 2015. Design of compact triple frequency microstrip antenna for wlan / wimax applications. Microwave and optical technology letters.
3. Kundu, A., Chakraborty, U., Bhattacharjee, A. K. 2015. Design of compact dual-band co-axially fed microstrip antenna for 2.4/5.2/5.8 GHz WLAN Applications. Journal of Electromagnetic Waves and Applications.
4. Majumder, A., Ghosh, S., Kundu, S., Chowdhury, S. 2015. Optimal Statistical Structure Validation of Brain Tumors using Refractive Index. Elsevier Procedia Computer Science.
5. Majumder, A., Sarkar, M. 2015. Quantitative trait Specific Differential Expression(qtDE). Elsevier Procedia Computer Science.
6. Nallagonda, S., Bandari S. K., Dhar Roy, S., Kundu, S., 2014. Combined Diversity and Improved Energy Detection in Cooperative Spectrum Sensing with Faded Reporting Channels. Journal of King Saud University - Computer and Information Sciences, Elsevier.
7. Pal, M., Sarkar, B., Sarkar, P., Ghatak, R., 2014. A dualband bandpass filter using integrated stepped impedance resonators. International Journal of Electronics Letters, DOI: 10.1080/21681724.2014.936522.

* Repeated in other departments

Department of Humanities and Social Sciences

1. Mukherjee, M., Banerjee, J. 2015. The Qur'an and liberation of Muslim women. Researchers World – Journal of Arts, Science & Commerce. 6(2), Doi: 11.03.2015.

2. Pyne, Summauli, Sengupta, P P, Modak, A. 2015. Indian Philosophy and Its Application by Swami Vivekananda. *Philosophy of Management Journal*. Doi: 23.03.2015.
3. Roy, A., Banerjee, J. 2015. Personal and Political: Changing Face of Bengali Middle Class in Amit Chaudhuri's *Freedom Song*. *Researchers World – Journal of Arts, Science & Commerce*. 6(2), Doi: 11.03.2015.

Department of Information Technology

1. Jana, N.D., Sil, J. 2015. Levy distributed parameter control in differential evolution for numerical optimization. *Natural Computing (Springer)*. DOI: 10.1007/s11047-015-9488-3 (doi: February, 24, 2015).

Department of Management Studies

1. Banerjee, A., De, A., 2014. Does Capital Structure Decisions determine Dividend Payout Policy in Indian Iron and Steel Industry? An Empirical Study. *Abhigyan, Journal of FORE School of Management*. (DoA: 29/04/2014)
2. Biswas, A., & Roy, M., 2015. Leveraging factors for sustained green consumption behaviour based on consumption value perceptions: testing the structural model, Accepted, *JCLP, Elsevier Sc.*, (DoA: 21 Feb 2015).
3. Chakrabarty, A., De, A., & Bandyopadhyay, G., 2015. Investment Horizon and Risk Measure- a study on ELSS funds. *International Journal of Business Excellence*, Inderscience Publishers. (DoA 26/04/2014)
4. Chakrabarty, A., De, A., & Dubey, R., 2014. An Excursion towards Multi-frequency-Prediction Based Flexible Asset Allocation System. *Global Journal of Flexible Systems Management*. DOI 10.1007/s40171-014-0090-9.
5. Ghosh, A., Jain, R, K., & Natrajan, R., 2014; Decision Tree Analysis for Selection of Factors in DEA: an application to Banks in India. *Global Business Review*, Sage Publication (DoA: 13/01/2014).
6. Guha, B., Dutta, A., & Bandyopadhyay, G., 2016. Measurement of Risk Vs Return of Indian Sectoral Indices, *Journal of Advance Management Science*. 4 (2), 106 - 111.
7. Guha, B., & Bandyopadhyay, G., 2016. Gold Price forecasting using ARIMA Model, *Journal of Advance Management Science*. 4 (2), 117 - 121.
8. Sarkar, S., 2014. Application of PCA and DEA to Recognize the True Expertise of a Firm: A case with Primary Schools. *Benchmarking: An International Journal*, Emerald Insight. (DoA: 16/11/2014)

Department of Mathematics

1. Kar, M. B., Bera, S., Das, D., Kar, S., 2014. A production-inventory model with permissible delay incorporating learning effect in random planning horizon using Genetic Algorithm", *Journal of Industrial Engineering International*, 16 December, 2014.
2. Qin, Z., Kar, S., 2014. Uncertain portfolio adjusting model using semi-absolution deviation", *Soft Computing*, 28 November, 2014.
3. Roul, J. N., Maity, K., Kar, S., Maiti, M., 2015. Multi-item reliability dependent imperfect production inventory optimal control models with dynamic demand under uncertain resource constraint, *International Journal of Production Research*, 3 March, 2015.

Department of Mechanical Engineering

1. Banerjee, N., Saravanan, V., Amuthkkanan, A. 2014. Optimization of Friction Stir Welding Parameters to Maximize the Tensile Strength of Dissimilar AA2024-T6 and AA7075-T6 Aluminum Alloy Joints. *International journal of Advanced Manufacturing Technology- Springer*.
2. Chatterjee, D., Chatterjee, K., Mondal, B., Hui, N. B. 2015. Unconfined hydro magnetic flow and heat transfer around a circular cylinder at low Reynolds numbers. *CFD Letters*.
3. Pramanik, S., Das, M.K. 2014. The Numerical Simulation of a Turbulent Plane Offset Jet Over a Double-Inclined Wall. *Applied Mathematical Modelling*.

Department of Metallurgical and Materials Engineering

1. Das, P., Show, B.K., Rathore, A., Samanta, S., 2015. Wear behaviour of Cooling slope Rheocast A356 Al alloy. *Tribology Transactions*. Accepted for Publication on 08-04-2015.

- Rout, P.K., Ghosh, M.M., Ghosh, K.S., 2015. Microstructural, mechanical and electrochemical behaviour of a 7017 Al-Zn-Mg alloy of different tempers, *Materials Characterization*, (Accepted) In Press
- Singh, J.K., Ghosh, M.M., 2015. Study on Fatigue Response of Nanoparticles under Ultra-High Frequency Cyclic Loading using MD Simulations. *Journal of Materials Engineering and Performance*. (Accepted) In Press, Online Version Published (DOI: 10.1007/s11665-015-1479-0), 2015

Department of Physics

- Barman, C., Chaudhuri, H., Deb, A., Ghose, D., Sinha, B. The Essence of Multifractal Detrended Fluctuation Technique to Analyse the Dynamics of Soil Radon Precursors for Earthquakes Natural Hazards, (Accepted on 14th January '2015).
- Chakrabartty, S., Mondal, A., Chakrabarti P., Singh, S.K., Saha, A. K. and Singh, P. Synthesis of biocompatible TiO₂ nanodots: Glancing angle deposition technique. *Journal of Nanoscience and Nanotechnology*, (Accepted on 22nd April' 2015).
- Mukherjee, P. S., Gupta, K., Chakraborty, G. and Meikap, A. K. Response of magnetic field and temperature on electrical transport of polyaniline-malic acid nanocomposite. *Polymer Composites*, (Accepted, September' 2014) (In Press).
- Ngangbam, C., Mondal, A., Choudhuri, B. Efficient photon management with Ag nanoparticles coated TiO₂ nanowire clusters for photodetector application. *Electronic Materials Letter*, (Accepted on 15th January' 2015).
- Saha, S., Mondal, A., Goswami, T., Choudhuri, B., Sarkar, M. B., Tiwari, A. K., Chattopadhyay, K. K. TiO₂ nanowires/ PMMA based hybrid photodetector: improved light detection. *Journal of Nanoscience and Nanotechnology*, doi:10.1166/jnn.2015.10788 (Accepted on 1st January' 2015).
- Saha, S., Nandy, A., Meikap, A. K. and Pradhan, S. K. Microstructure characterization and electrical transport properties of nanocrystalline, Fe and Fe-doped Cubic Zirconia Cermets Synthesized by Mechanical Alloying. *Mater. Res. Bull.*, (Accepted, March' 2015) (In Press).
- Sahoo, B., Chakraborty, S., Sahoo, S. Nuclear Symmetry Energy in terms of Single Nucleon Potential and Its effect on the Proton Fraction of β - stable npe μ matter. *Physics of Atomic Nuclei*, 78 (Accepted on November '2014).
- Sinha, R., Basu, S. and Meikap, A. K. Investigation of dielectric and electrical behavior of Mn doped YCrO₃ nanoparticles synthesized by sol gel method *Physica E* (Accepted, January' 2015) (In Press).
- Sinha, S., Chatterjee, S. K., Ghosh, J., and Meikap, A. K. Electrical transport properties of ZnSe quantum dots at and above room temperature. *Current Applied Physics* (Accepted, *Physica E* ' 2015) (In Press).

Annexure–11.4(d) Research papers presented in conferences and published in proceedings during 2014-15

Department of Biotechnology

- Bera, S., Chaudhuri, S., Dutta D. March 21-22, 2015 Strong antioxidant property of bacterial canthaxanthin obtained by raw coconut water supplementation as an additional nutrient source International Conference on Bio-Medical Engineering and Environmental Technology (BMEET-15) London, United Kingdom
- Bera, S., Chaudhuri, S., Dutta D. November 6-9, 2014 Radical scavenging activities of mangiferin obtained from *Curcuma amada* by different extraction methods: A comparative study International Conference on Emerging Trends in Biotechnology (ICETB 2014) JNU, New Delhi, India.
- Kazy, S. K., Das, R., Sar, P., November 12 – 14, 2014, Microbial Communities and functional potential in Petroleum Hydrocarbon Contaminated Environments, 55th Annual Conference of Association of Microbiologists of India on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014), Tamilnadu Agricultural University, Coimbatore
- Kazy, S. K., Sar, P., Roy, A., Sarkar, P., Sarkar, J., Bharadwaj, R., Ghoshal, A. K., August 24 – 29, 2014, Microbial community analysis of petroleum refinery wastes through deep sequencing of 16 S rRNA genes, International Society for Microbial Ecology (ISME) conference, Seoul, South Korea
- Kumar, T., Bhunia, B., Mandal, T., Dey, A. November 3-5, 2014 Biodiesel from micro-algae: Challenges and Prospects. Third International Conference on Petroleum Science and Technology 2014 (ICPST-2014), Indian Institute of Technology Madras, Chennai, India
- Mandal, T., Kumar, A., Majumdar, R., DasguptaMandal, D., Datta, S. January 23–26, 2015 Degradation of simulated wastewater (coke-oven based) by the combination of advanced oxidation process with an aerobic biological treatment, International conference on water from pollution to purification (ICW-2015), Kottayam, India.

7. Mitra, R., Samanta, A.K., Chaudhuri, S., Dutta D. March 13-15,2015 Growth kinetics and carotenoid production of a newly isolated bacterium on glucose as a carbon source during batch fermentation 5th International Conference on Advances in Biotechnology (BioTech 2015)IIT-Kanpur; India
 8. Pal, S., Roy, A., Sarkar, P., Ghoshal, A. K., Sar, P., Kazy, S. K., November 6-9, 2014, Genotypic and metabolic characterization of indigenous bacteria isolated from tank bottom sludge of Dhulijai Oil Field, Assam, India, 11th Convention of The Biotech Research Society, India, on Emerging Trends in Biotechnology (ICETB-2014), Jawaharlal Nehru University, New Delhi, India
 9. Paul, D., Kazy, S. K., Sar, P., November 6-9, 2014, Bacterial diversity, metabolic activity and role in arsenic transformation within groundwater of West Bengal, 11th Convention of The Biotech Research Society, India, on Emerging Trends in Biotechnology (ICETB-2014), Jawaharlal Nehru University, New Delhi, India
 10. Roy, A., Sarkar, P., Bharadwaj, R., Ghoshal, A. K., Sar, P., Kazy, S. K., November 6-9, 2014, Ultradeep sequencing of 16S rRNA genes from metagenomes revealed high diversity and intrinsic bioremediation potential of microbial community in petroleum refinery sludge, 11th Convention of The Biotech Research Society, India, on Emerging Trends in Biotechnology (ICETB-2014), Jawaharlal Nehru University, New Delhi, India
 11. Sar, .P, Paul, D., Sarkar, A., Kazy, S. K., November 12-14, 2014, Microbiology of arsenic contaminated groundwater, 55th Annual Conference of Association of Microbiologists of India on Empowering Mankind with Microbial Technologies (AMI-EMMT- 2014), Tamilnadu Agricultural University, Coimbatore
 12. Sarkar, J., Velappan, H., Roy, A., Kazy, S. K., Sar, P., November 6-9, 2014, In-situ bioremediation of petroleum waste: Assessing the potential of indigenous microorganism through biostimulation, 11th Convention of The Biotech Research Society, India, on Emerging Trends in Biotechnology (ICETB-2014), Jawaharlal Nehru University, New Delhi, India
 13. Sengupta, B., Kumar, A., Dasgupta mandal, D., Mandal, T., Kumar, T. Feb 22, 2015 Treatment of rice mill wastewater using modified adsorbent prepared from rice husk ash, "Water and Sustainable Development" on Bharat Coking Coal Limited, Dhanbad.
 14. Chebolu, A., Laha, B., Ghosh, M, Nagahanumaiiah, December 12th–14th, 2014, Engineering of micro pattern surface topographies-correlating pattern geometry and bacterial resistance. 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014), IIT Guwahati, Assam, India
- * Repeated in other departments

Department of Chemical Engineering

1. Bhattacharya M., Bishayee B., Mandal M. K., December 27-30 2014 Lignin Recovery Using Rotating Disk Ultrafiltration Module From Rice Straw, CHEMCON-2014.
2. Bhui B, Kamila B, Sadhukhan A K, Gupta P, December 27-30 2014. 2-D Modeling Of Combustion of Biomass Char – Volume Reaction Model, FTIR study on isothermal pyrolysis of coal. CHEMCON-2014, Dr. SSB University Institute of Chemical Engineering & Technology, Punjab University, Chandigarh, India.
3. Bhunia S., Prabhakar A., Haldar S., Sadhukhan A. K., Gupta P., December 27-30 2014. FTIR study on isothermal pyrolysis of coal. CHEMCON-2014, Dr. SSB University Institute of Chemical Engineering & Technology, Punjab University, Chandigarh, India.
4. Biswas, G., Dutt, M., Dutta, S. and Adhikari, K., December 15 – 17, 2014. A Comparative Study of Removal of Fluoride from Contaminated Water using Shale Collected from Different Coalmines", Proceedings of International Conference on Environment and Energy, Jawaharlal Nehru Technological University Hyderabad, 161-162.
5. Chakraborty, S., Roy, M., Pal, P., December 27-30 2014. A techno management study of arsenic rejects. Chemical Engineering Conference (CHEMCON-2014), I.I.Ch.E., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh,.
6. Kamila B, Shiromani R P, Singh P, Guguloth V R, Singh P, Sadhukhan A K, Gupta P, December 27-30 2014. 2-D Modelling of Pyrolysis of Large Biomass Particles, Chemical Engineering Conference (CHEMCON-2014), I.I.Ch.E., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh,.
7. Kumar, R., Pal, P., December 27-30 2014. Experimental Investigation on Separation of L-glutamic acid from Fermentation Broth by Nanofiltration. Chemical Engineering Conference (CHEMCON-2014), I.I.Ch.E., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh.
8. Kumar, T., Bhunia, B., Mandal, T., Dey, A. November 3-5, 2014. Biodiesel From Micro-Algae: Challenges And Prospects. E-proceedings of the third International Conference on Petroleum Science and Technology 2014 (ICPST-2014: www.icpst.in).

9. Mandal, T., Kumar, A., Majumdar, R., Dasgupta, D., Datta, S. 23–26 January 2015. Degradation of simulated wastewater (coke-oven based) by the combination of advanced oxidation process with an aerobic biological treatment, International conference on water: from pollution to purification (ICW-2015) Kottayam, India.
 10. Narayanan, C. M., June 26 – 27, 2014. Computer Aided Analysis and Simulation of Three Phase Semifluidized Bed Bioreactor with Special Reference to Xanthan Gum Production from Cheese Whey, Proc. International Conf. on Bioprocess Engineering, Valencia, Spain.
 11. Narayanan, C.M., December 27 – 30, 2014. Novel Designs of Industrial Bioreactors – Recent Developments (*Invited lecture*), Proc. International Conf. on Advances in Chemical Eng. and Tech., Kollam, October 16 – 18, 2014.
 12. Narayanan, C.M., Jaya Sikder and Tripti De, December 27-30 2014 Design and Analysis of Bioreactors for Biodiesel Synthesis, Proc. Chemical Engg. Congress (CHEMCON – 2014), Chandigarh.
 13. Nayak, J., Pal, P., 27-30 December 2014. Production of acetic acid and whey protein from waste cheese whey in a hybrid reactor under response surface optimized conditions. Chemical Engineering Conference (CHEMCON-2014), I.I.Ch.E., Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh,.
 14. Sengupta, B., Kumar, A., Dasgupta, D., Mandal, T., Kumar, T. 22 Feb 2015. Treatment of rice mill wastewater using modified adsorbent prepared from rice husk ash, “Water and Sustainable Development” on Bharat Coking Coal Limited, Dhanbad.
 15. Singha, S., Kumar, A., Dasgupta, D., Mandal, T., Kumar, T. 22 Feb 2015. Treatment of rice mill wastewater using rice husk-based silica supported iron catalyst by Fenton-like process, “Water and Sustainable Development” on Bharat Coking Coal Limited, Dhanbad.
 16. Vignesh K.R., Kumar, A., Mandal, T., Datta, S. 30 Jan- 1 Feb 2015. Evaluation of bioassays for the toxicity determination of cokeoven wastewater and its major individual components. EPP-2014, NIT, Durgapur, West Bengal.
- * Repeated in other departments

Department of Chemistry

1. Adhikari, S., Adhikari, U. August 13, 2014. Chemical Modification of Pectic polysaccharides from Water Melon through phosphorylation and study of antioxidant activity. Recent Progress in Chemistry – 2014. Sidho-Kanho-Birsa University, Purulia.
2. Banu, M. H., Sukul, D., Adhikari, U. August 7-9, 2014. Corrosion inhibition of mild steel by Brassica oleracea extract in 1M hydrochloric acid solution, Int. Conf. on Electrochemical scienc and technology (ICONEST 2014), IISc Bangalore.
3. Basu, R., Dutta, S. and Saha R.N. January 23-24, 2015 Fenton’s Reagent Effectively Reduced the Pollution Load from Tannery Wastewater. Two days National Workshop on “Challenges and Opportunities for Management of Water Supplies in Rural Areas (COMWRA 2015)” at ISM Dhanbad, under KRC Scheme of Ministry of Drinking Water & Sanitation.*
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8. Dutta, (Chowdhury) N., Ghosh K.S., December, 4-6, 2014. Assessment of Microstructural and Electrochemical Behaviour of Ag-Sn-Cu Dental Amalgams, First International Conference on Emerging Materials: Characterization & Application (EMCA-2014). Kolkata, India
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Department of Physics

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 39. Sharma, B., Kant, G. R., Seal, K., Bhadury, S., Das, R., Chaudhuri, H. December 28-30, 2014. Geochemical Precursor for Earthquake. International Conference on Decision Support Systems for Early Warning and Mitigation of Disaster, NIT Durgapur, WB
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 44. Singh, R. K., Kole, A. K., Kumbhakar, P., February, 27-March, 3, 2015. Synthesis of TiO₂ Nanoparticles and its Thin Film for Self Cleaning Application. Experimental Techniques for Material Characterizations (ETMC 2015), NIT Durgapur
 45. Sinha R., Meikap A. K., Basu S. December 4-6, 2014. The electrical transport properties of Mn doped nanocrystalline YCrO₃. First International Conference on Emerging Materials: Characterization & Application (EMCA-2014), CSIR-CGCRI, Kolkata, 100
 46. Sinha S., Meikap A. K. December 4-6, 2014. Electron dephasing scattering time of V₈₂Al_{1-x}Fe_x disordered alloys at low Temperature. First International Conference on Emerging Materials: Characterization & Application (EMCA-2014), CSIR-CGCRI, Kolkata, 92
 47. Some, A., Shome, A., Chakma, B., Thoma Debbarma B. S., Barnwal, D., Arya, L., Mondal, A. April 19th -20th, 2014. A comparative study on TiO₂ and SiO_x dielectric based MOS capacitance. Innovative Trends in Applied Physical, Chemical, Mathematical Sciences and Emerging Energy Technology for Sustainable Development, Jawaharlal Nehru University, New Delhi

Annexure - 11.4(e) Visits abroad during 2014-15

Department of Biotechnology

Name	Name of the Programme	Organized by	Date of the programme
Chattopadhyay, S	Collaborative research	Durham University, UK,	May 16-31, 2014

Department of Chemical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Dutta, S.	Visiting Research Fellow	Department of Civil and Environmental Engineering, University of Massachusetts Dartmouth, USA	June 6, 2014 to June 17, 2014

Kumar. T	SPE Asia Pacific Enhanced Oil Recovery Conference & Caladonian college of Engineering, Oman	& SPE conference on EOR The Society of Petroleum Engineers	31 st March – 6 th April 2014 & 4-6 th April 2014
Narayanan, C.M	International Conference on Bioprocess Engineering, Valencia, Spain,	Omics Group International, USA	June 26 – 27, 2014.

Department of Chemistry

Name	Name of the Programme	Organized by	Date of the programme
Chakrabarty, J.,	The 5 th Congress of the Asia Pacific Initiative on Reproduction (Aspire), Brisbane, Australia.	Asia Pacific Initiative on Reproduction	April 4-6, 2014
Chakrabarty, J.,	6 th International Conference on the Epididymis (Epididymis VI) Shanghai, China	Networks in Epididymis Basic and Clinic Research	October 31 – November 03, 2014
Moi, S.C.	6 th International Conference on Environmental Science and Development (ICESD-2015), Amsterdam, Netherland	APCBEES	February 14-15, 2015
Panja, S.S.	4 th International Conference on Molecular Sensor and Molecular Logic Gates	East China University of Science and Technology, Sanghai, China	November 9-12, 2014
Saha R. N.	6 th International Conference on Environmental Science and Development (ICESD-2015), Amsterdam, Netherland	APCBEES	February 14-15, 2015

Department of Civil Engineering

Name	Name of the Programme	Organized by	Date of the programme
Roy P.	Academic visit and research collaboration	Department of Civil and Environmental Engineering, University of Surrey, UK	June 04-27, 2014

Department of Computer Applications

Name	Name of the Programme	Organized by	Date of the programme
Anirban Sarkar	IEEE TENCON Conference 2014, Bangkok, Thailand	IEEE	October 22 – 25, 2014
Sujoy Saha	IEEE PerCom 2015	IEEE	March 23-27, 2015
Sujoy Saha	MST, Rolla, USA Research Collaboration		March 16 – 22, 2015

Department of Computer Science and Engineering

Name	Name of the Programme	Organized by	Date of the programme
De, T.	6 th International Conference on Computer Technology and Development (ICCTD 2014),	IACSIT	November 7-9, 2014

 Hong Kong

Guha Thakurta, P. K.	6 th International Conference on Computer Technology and Development (ICCTD 2014), Hong Kong	IACSIT	November 7-9, 2014
Guha Thakurta, P. K.	International Conference on Computer Science and Information Technology, Dubai, UAE	WASET	January 30 - 31, 2015
Pal, T.	2014 IEEE International Conference on World Congress on Computational Intelligence, WCCI 2014 IEEE, Beijing, China	IEEE	July 6-11, 2014
Pal, T.	7 th International Joint Conference on Computational Sciences and Optimization (CSO 2014), Beijing, China	University of Chemical Technology, Beijing, China	July 4-6, 2014
Pal, T.	14 th International Conference on Artificial Intelligence and Soft Computing ICAISC2015, Zakopane, Poland	The Conference is organized by Polish Neural Networks Society and Academy of Management in Lodz (SWSPiZ)	June 1-5, 2014
Sadhu, S.	6 th International Conference on Computer Technology and Development (ICCTD 2014), Hong Kong	IACSIT	November 7-9, 2014
Sadhu, S.	17 th International Conference on Cloud Computing Technology and Science, Dubai, UAE	WASET	January 30 - 31, 2015
Sen, B.	40 th International conference on Micro and Nano Engineering (MNE2014), Lausanne, Switzerland	EPFL, Microelectronic Engineering, Elsevier	September 22-26, 2014

Department of Electrical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Acharya P.	Collaborative Research	CITCEA-Universitat Politecnica de Catalunya, Barcelona, Spain	October 21 to November 6, 2014
Banerjee S	40th Annual Conference of the IEEE Industrial Electronics Society, Dallas, USA	IEEE IE Dallas, USA	October 29 – November 1, 2014.
Koley Chiranjib	Conference on Control Applications (CCA)	IEEE	October 8-10, 2014
Mahato S. N.	IEEE International Conference TENCON 2014, Bangkok, Thailand	IEEE	October 22-25, 2014.

Department of Electronics & Communication Engineering

Name	Name of the Programme	Organized by	Date of the programme
Kundu.S	Collaborative Research	University of Parma, Italy	June 8 th to 27th, 2014

Mahapatra R	Research Collaboration visit	Chang Gung University, Taiwan	June 1-July1 2014
Majumder, A.	ICICM 2014, Geneva, Switzerland.	International Association of Computer Science and Information Technology, China.	October 8-9, 2014.
Mandal, S. K.	International Conference RADIO 2014		April 07 – 10, 2014

Department of Humanities & Social Sciences

Name	Name of the Programme	Organized by	Date of the programme
Sengupta, P P	International Conference on Emerging Market Conference- Redefining Value in Emerging Market	IMT Dubai	January 20-22, 2015

Department of Information Technology

Name	Name of the Programme	Organized by	Date of the programme
Dutta, A.	International Conference on Practical Application of Agents and Multi-agent System (PAAMS 2014)	University of Salamanca, Spain	June 4-6, 2014
Dutta, A.	International Research Visit	University of Salamanca, Spain	June 7-22, 2014
Jana, N. D.	WCCI 2014, Beijing China	IEEE Computational Intelligence Society	July 6-11, 2014
Mukhopadhyay, S.	PICom 2014, Dalian, China	IEEE	August, 24-27, 2014

Department of Mathematics

Name	Name of the Programme	Organized by	Date of the programme
Pal P.	International Seminar and workshop	Max Plank Institute for the Physics of Complex Systems, Dresden, Germany	15 June - 4 July, 2014.
Dey L.K.	Winter School on "Contemporary aspects of Cryptography"	AMSI, University of Queensland, Brisbane, Australia	6 - 18 July, 2014
Dey L.K.	International Conference on "Recent Advances in Pure and Applied Mathematics ICRAPAM-2014"	Prof. Dr. Ekrem Savas, Istanbul Ticaret University, Turkey	6-9 November, 2014
Bagchi S.	Winter School on "Contemporary aspects of Cryptography"	AMSI, University of Queensland, Brisbane, Australia	6 - 18 July, 2014
Pal A.	Paper Presented	ICDIM, HongKong	20 - 21 September, 2014
Sarkar(Mondal) S.	Paper Presented	Dept. of Mathematics & Natural Sc., Gulf Univ. for Science & Technology, Kuwait	19-21 November, 2013

Basu K	Training Programme	Dept. of Mathematics and Statistics, Teaxas Tech University, Lubbock, USA	5 – 9 January, 2015
Kar S.	Visiting Professor	Uncertainty Theory Lab, Tsinghua University, Beijing, China	16 June – 12 July 2014

Department of Mechanical Engineering

Name	Name of the Programme	Organized by	Date of the programme
Hui N. B.	Collaborative Research in Robotics	Department of Computer Science, Ostfalia University of Applied Sciences, Salzdahlumer Str. 46/48, D-38302 Wolfenbuettel, Germany	June 2014 to July 2014

Department of Metallurgical and Materials Engineering

Name	Name of the Programme	Organized by	Date of the programme
M. M. Ghosh	XII Inter. Conf. on Metallurgical and Materials Engg. (ICMME 2015), London, UK	World Academy of Science, Engineering and Technology	Jan. 19-20, 2015
Bera S.	Visiting Researcher	Institut für Materialphysik Universität Münster, Germany	June 15- July 12, 2014
Bera S.	Invited as guest	Tata Steel Research and Development, IJmuiden Technology Center, The Netherlands	July 12- July 16, 2014
K S Ghosh	Visiting Academic	Monash University, Victoria, Melbourne, Auatralia	March 23-29, 2015

Department of Physics

Name	Name of the Programme	Organized by	Date of the programme
Chakraborty, AK	India Fellowship Award	University of Liverpool, Liverpool, UK	June 1 to Aug 30, 2014
Chakraborty, AK	DST-UKIERI project update meeting	The Open University, Milton Keynes, UK	August 18 to 24, 2014
Kumbhakar P.	Visiting researcher/ Collaborative research under PDA Grant,	National Chiao-Tung University, Taiwan	March 7-15, 2015

Annexure - 11.4 (f) Ph.D. degree awarded during 2014-15

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Studies on the Biochemical Characterization and Optimization of Media Composition for Phenol Degradation by Microbes from Industrial Waste Water	Basak B	Dey A
Treatiblility Studies of Dyes by Low cost adsorbent	Chakraborty S	Dey A
Exploration and Exploitation of Microbial Catabolic Potentials for the Bioremediation Petroleum Hydrocarbons	Das R	Kazy S K
Studies on Bioconversion of Lignocellulosic Materials to Ethanol	Ganguly A	Dey A Chatterjee PK

		(CMERI Durgapur)
Molecular and Functional analyses of ZBF1/MYC2, a Z-box interacting bHLH transcription factor, in tomato (<i>Lycopersicon esculentum</i> Mill.)	Gupta N	Chattopadhyay S
Bioprospecting of Extracellular Enzymes from <i>Xenorhabdus</i> sps	Kumar P	Dutta D Lata Chaudhuri S
Genetic and Molecular Interactions of ZBF1/MYC2 and ZBF2/GBF1 in Arabidopsis Seedling Development	Maurya J	Chattopadhyay S
Genetic Regulation of Systemic Acquired Resistance in Arabidopsis thaliana	Singh V	Chattopadhyay S. and Nandi A (SLS, JNU)

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Liquid Phase Adsorption of Mercury (II) Using Immobilized Enzyme	Bhattacharyya A	Dutta S Basu S HIT Kolkata
Studies on the Removal of Pollutants from Treated Municipal Wastewater by Photo-catalytic Oxidation Process	Cheryan AJ	Sarkar JP Shaik F & Ali Bawaain MS
Studies on Solar Heat Driven Adsorption Based Cooling with Comparative Performance Analysis of the Chiller under Two different Climatic conditions in India	Choudhury Bi	Sarkar JP Chatterjee PK
Analysis and Energy Optimization of Natural Circulation Flow	Goswami N	Paruya S
Fermentative production of cholesterol – lowering drugs particularly Lovastatin	Goswami S	Mandal T
Analysis of the nonlinear Instabilities in the Natural Circulation Boiling Flow	Karmakar A	Paruya S
Studies On The Kinetics Of Ethanol Conversion From <i>Parthenium Hysterophorus L.</i>	Majumdar (Ghosh) S	Haldar S. Chatterjee PK (CSIR-CMERI)

Department of Chemistry

Topic	Investigator	Supervisor(s)
Development of Natural Fibre Reinforced Polyester Composite Material	Hazarika SB	Panja SS Choudhury S
An Investigation on Composition of Sea Water and its Corrosion Effects on Metals	Shah Jahan (Oman)	Das SB Saha RN Raut NB (C.C.E., Oman)

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
Design of Distributed Protocols to Implement SOA based MANET Applications	Choudhury P	Nandi S

Department of Earth and Environmental Studies

Topic	Investigator	Supervisor(s)
Assessment of Groundwater Condition and Quality in Areas North of Durgapur in the District of Burdwan, West Bengal	Chakraborty B	Gangopadhyay A Adhikari K
Geo-Environmental Impact of Coal Mining in Some Parts of Raniganj-Asansol Coalfields, West Bengal	Sadhu K	Adhikari K Gangopadhyay A

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
Mathematical Modeling and Development of Nanoparticle Based Gas Sensor for Online Monitoring of Dissolved Gases In Transformer Oil	Anjali C	Roy NK Kumbhakar P
Development and application of classical and meta-heuristic techniques for the solution of power flow and state estimation problems	Mallik S	Thakur SS Acharjee P Ghoshal SP
Some Aspects of Controller Design for DC Electromagnetic Levitation Systems	Sarkar M K	Banerjee S Ghoshal SP Saha TK
Short-Term Forecasting of Electricity Market Variables and Optimal Power Flow Study	Pany P K	Ghoshal SP

Department of Electronics & Communication Engineering

Topic	Investigator	Supervisor(s)
Integrated Energy Performance of CDMA Wireless Sensor Networks with Efficient Forwarding and Error Control	Datta Uma (De)	Kundu S
Some Studies on Antenna Array Failure Correction Using Evolutionary Algorithms	Muralidharan R	Mahanti GK
Cooperative Spectrum Sensing for Cognitive Radio Networks over Fading Channel	Nallagonda S	Kundu S Dhar Roy S
Optimal Digital Filter Design Using Evolutionary Optimization Techniques	Saha Suman K	Kar R Ghoshal SP Mandal D
Some Studies on Minimization of On- Chip and Off- Chip Cross-Talk in VLSI Circuits	Singha S	Mahanti G K
Some Studies on Compact and Broadband Microstrip Antenna	Chakraborty U	Bhattacharjee AK
Performance Parameters Estimation of On-Chip VLSI Interconnections	Maheshwari V	Bhattacharjee AK

Department of Humanities & Social Sciences

Topic	Investigator	Supervisor(s)
Factors affecting Capital structure Adjustments of Indian Firms; A study On Indian Panel data.	Bhattacharyya S	Sengupta PP
Development of Rural Poor in Terms of HDI Through Livelihood Promotion And women Empowerment in Rural Bengal (Bankura District, West Bengal)	Dey D	Sengupta PP
A Postcolonial Study Of Rushdie's Select Novels	Punyajit G	Rai SK

Travel Writings of D. H. Lawrence: the Literary Dimensions	Mukherjee A	Modak A
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Department of Mathematics

Topic	Investigator	Supervisor(s)
Modeling and analysis of industrial system	Narayanan P	Pal A & Rizwan SM
Some Transportation Problems in uncertain environments	Kundu P	Kar S & Maiti M
Mathematical models of some decision making problems in different environments	Saha A	Kar S & Maiti M
Some Production Inventory Models in Uncertain Environment	Hazari S	Kar S Dey JK & Maity K

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Reliability based predictive preventive maintenance for assessment of effectiveness of continuously monitored system	Biswas R Kumar	Majumder MC Basu, S K Govt Engg College, Pune
Pose Estimation of Autonomous Robot by Robust Scan Matching Technique and Obstacle avoidance for Navigation in Unstructured Environment	Banerji D	Basak I Basu J (CSIR-CMERI, Durgapur)
Improvement of Performance of Coal Fired Steam Generation Technology for Thermal Power Plants.	Bhattacharya C	Banerjee,N., Sarkar H. (WBPCB)
Recovery of Human Palmer Grasp Postures: A Weighted Subspace Approach using Inverse Kinematics	Chatterjee A	Basak I Majumdar S (CMERI Durgapur)
Automatic Fault Detection and Diagnosis in Gears Using Wavelet Analysis and Neural Network	Lokesha M	Majumder MC Ramachandran K P (CCoE, Oman)
Study of a Software Servo Controlled Robotic Manipulator with Flexible Joint	Mukhopadhyay S	Majumder MC Sengupta SN

Department of Metallurgical and Materials Engineering

Topic	Investigator	Supervisor(s)
Development of aluminium based metal matrix composite with hybrid reinforcement	Bijay K S	Maity J and Mondal DK
Development of novel in-situ aluminium based metal matrix composite by TiC addition in 6351 Al melt	Manas K M	Maity J and Biswas K (IIT Kharagpur)
Development and characterization of ceramic oxide dispersed Al 7075 alloy composite	Karunanithi R	Bera S and Ghosh KS

Department of Physics

Topic	Investigator	Supervisor(s)
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Investigation on the properties of CNT based polymer nanocomposites	Agarwalla RK	Chakraborty AK Mitra AK
Density Dependence of the Symmetry Energy and the Equation of State of Isospin Asymmetric Nuclear Matter with Phenomenological Effective Interactions	Banerjee S	Sahoo S Sahoo B (TDB College, Ranigang)
Studies on Synthesis, Photoluminescence and Nonlinear Optical Properties of ZnS Nanostructures	Kole A	Kumbhakar P
Macroscopic Polarization Effect on Thermal Conductivity of Wurtzite Binary Nitrides	Sahoo SK	Sahoo S Sahoo BK (NIT Raipur)

Annexure - 11.4(g) i Ongoing Doctoral Programme

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Production of biopesticide from <i>Mucuna pruriens</i>	Acharya B	Aikat K
Studies on Genotoxicity of Industrial Effluents and Its Treatment Strategies for Remedy	Behera M	Dasgupta Mandal D
Metabolomics of carotenoid production in <i>Dietzia maris</i> NIT-D (Accession no-HM151403)	Bera S	Dutta D
Cloning and Functional analysis <i>Leishmania donovani</i> Amastin-like surface Protein	Biswas B	Ghosh M
Role of 15-lipoxygenase in the pathogenesis of several diseases	Biswas P	Bhattacharjee A
Production of hydrocarbon from microalgae	Bobde KA	Aikat K & Bhattacharjee A
Investigation of genetic and molecular functions of ZBF1/MYC2 with other regulatory protein of light signaling in Arabidopsis seedling development	Chakraborty M	Chattopadhyay S
Screening of medicinal plants for drug development	Chatterjee C	Chaudhuri S Bhattacharjee A Dutta D
Role of Src kinases in Monocyte migration	Das P	Bhattacharjee A
Studies on the kinetics for enhanced production of rapamycin	Das S	Dey A
Role of Fanconi proteins in Genomic Instability	Das T	Mukhopadhyay SS
Vesicle docking Protein of <i>L. donovani</i> , its cloning, purification and functional assay.	Deepthy S	Ghosh M
Role of a novel signaling complex in regulating IL-13-induced 15-lipoxygenase expression in monocytes	Dhabal S	Bhattacharjee A
Extraction, purification and characterization of bioactive compounds from food waste	Gehlot S	Chaudhuri S Bhattacharjee A Dutta D
Development, characterization and optimization of novel drug delivery system against degenerative diseases through statistical modelling	Hazra M	Dasgupta Mandal D, Mandal T
Role of Fanconi Anemia Proteins in Mitochondria	Bose K. J. Ch.	Mukhopadhyay SS
Production of bacterial cellulose	Kumar P	Aikat K & Kaushik BD, (Anand Engg Coll, Agra)
Leishmanial Apical Membrane Antigen: The Probable Functional Analysis in Cell adhesion & Infection.	Laha B	Ghosh M
Functional Insights of Fanconi Anemia proteins : special Reference to Mitochondria	Mahto R	Mukhopadhyay SS

Topic	Investigator	Supervisor(s)
Assessment on the Treatment of Pharmaceutical wastewater using sorption & bioremediation techniques	Mondal S	Aikat K & Haldar G (Chem Engg Dept)
Studies on natural resourced hydroxiapatite biomaterials for tissue engineering application	Mondal S	Dey A Mukhopadhyay SS
A study on Candida infection in HIV/AIDS patients in a tertiary care hospital in Kolkata	Mukherjee M	Dutta D Basak S Guha SK
Diversity and metabolic potential of indigenous bacteria in petroleum contaminated sludge from oil field: prospects for bioremediation	Pal S	Kazy S K
Identification and characterization of interacting partner of CAM7/ZBF3 in Arabidopsis seedling development	Parvez SW	Chattopadhyay S
Studies on biodelignification to improve the paper quality & minimize the generation of Genotoxic effluents	Rashmi P	Dasgupta Mandal D
Engineering of cellulase enzymes of <i>Aspergillus fumigatus</i> NITDGPKA3 for enhancing their activity and development of recombinant cellulosic <i>Saccharomyces cerevisiae</i> for bioethanol production from rice straw	Reddy S D	Mukhopadhyay SS
Assessment of microbial communities and their bioremediation potentials in petroleum contaminated sludge from oil refineries	Roy A	Kazy SK
Functional analysis of G-protein coupled receptor in <i>Magnaporthe oryzae</i>	Sabnam N	Roy Barman S
Characterization and optimization of pigment production from an isolated strain	Samanta A	Dutta D Chaudhuri S
Investigation of functional interrelations of ZBF3/CAM7 with COP1 in Arabidopsis seedling development	Senapati D	Chattopadhyay S
Extraction & application of natural dyes	Sinha K	Aikat K, *Das P, & *Datta S *(Jadavpur Univ)
Molecular and genetic interactions of ZBF1/MYC2 with regulatory component of light signaling pathways in Arabidopsis thaliana	Srivastava AK	Chattopadhyay S
Anti-leishmanial effect of Statins and micronutrients, exploring mechanistic actions	Verma A K	Ghosh M
Genotypic and Functional Characterization of Wheat Associated Microflora from Different Agro-Ecological Zones	Verma P	Kazy S K Suman A

Department of Chemical Engineering

Topic	Investigator	Supervisor(s)
Studies on Biomethanation using Codigestion of Vegetable Wastes with Algal Mass	Ajeej A	Narayanan CM
Modelling and experimental investigations on thermochemical conversion of biomass and its blends	Banerjee A	Gupta P & Sadhukhan AK,
Studies on upgrading of water quality in coal mining areas of Meghalaya and Eastern Coal mines by Chemisorption and Bioremediation towards mitigation of unscientific coal mining	Banerjee S	Halder GN Mandal T
Microbial Production of Gluconic Acid	Banerjee S	Pal P
Production Management through Optimization Strategy	Basu S	Pal P & Roy M
Understanding and Modelling the Dynamics of Coke-Oven Wastewater	Bera D	Pal P
Technology Development of Liquid Phase Adsorption of Mercury Using Low-cost Adsorbent for Better Management of Industrial Wastes	Bhattacharyya A	Dutta S Basu S (HITK)

Topic	Investigator	Supervisor(s)
Studies on pyrolysis of waste tyres and fuel recovery	Biman BB	Sadhukhan AK B Ruj B CMERI, Durgapur Gupta P
Study on acidic gas separation & utilization of CO ₂ into valuable products: A membrane integrated approach	Bhattacharya M	Mandal MK
A Study of Adsorptive Removal of Carbon dioxide from Biogas for Enrichment of Methane by Pressure-Swing Adsorption Mechanism	Chakrabarty P	Halder GN
Experimental Study of Synthesis and Characterisation of Biodiesel from non-edible oil employing heterogeneous carbonaceous catalyst	Sumit HaD	Kumar T & Halder GN
Experimental Investigation on retention and release mechanism of methane in some Indian coals	Sujoy C	Kumar T Halder GN & Mohanty D
Experimental study of sorption behaviour of Indian coals for extraction of coalbed methane	Chattaraj S	Halder GN Kumar T Datta D
Modelling and experimental investigations on pyrolysis and combustion of coal	Bhunias S	Haldar S Sadhukhan A K Gupta P
A Techno-management Study Towards sustainable Solution to arsenic and fluoride contamination problem	Chakraborty S	Pal P Roy M
Enzymatic removal of heavy metals from waste water: Experiment and Modeling	Chatterjee S	Dutta S Basu S(HITK)
Arsenic Transport through Vegetation	Chanda S	Pal P & Saha R
Studies on Enzymatic Synthesis of Biodiesel from Microalgae Oil / Neem Oil using Fluidized Bed / Semifluidized Bed Bioreactors	De T	Narayanan C M
Abatement of Fluoride from Ground Water and Wastewater	Gargi B	Dutta S Adhikari K
Green Process for Production of Glutamic acid	Dekonda V C	Pal P
Gas-Solid reaction kinetics in converging vertical riser	Rashmi D	Sarkar JP and Br Das B
Novel Techno-economic Evaluation for Conversion & Re-refining of Used Lubricating Oils to Base Oil	Sushanta KR	Br Bimal Das
Experimental investigation of carbon dioxide sequestration from flue gas through chemical absorption of blended amines	Khan A A	Halder G N Saha A
A critical study on Natural refrigerants towards the Replacement of CFCs	Kumar A	Halder G N
Process intensification in production of Acetic acid	Nayak J	Pal P
Mathematical Modelling of Blast Furnace Hot Blast Stoves	Manjhi SP	Gupta P
Sorptive removal of contaminants from Pharmaceutical waste using agricultural waste	Mondal S	Halder GN
Experimental investigation of polymer grafting onto rice straw for enhancement of its durability and flame retardancy	Mukherjee A	Halder GN
Mass Transfer in Convergent Pneumatic Dryer	Prasad S K	Sarkar JP Paruya S
Microbial Production of Gluconic Acid	Banerjee S	Pal P
Effective Treatment of Pharmaceutical Wastewater: New Membrane based Approaches	Thakura R	Pal P
Treatment of Coke Oven Waste Water Using Hybrid Technology	Sabyasachi P	Ghanta KC Dutta S
A Study of Fluoride Removal from Contaminated Groundwater by Biological Treatment	Singh NP	Halder GN

Topic	Investigator	Supervisor(s)
Development of Filter Media and System for High Temperature Applications	Nayek S	Adhikari K Dutta S
Phycoremediation of Heavy Metals from Wastewater	Sen S	Dutta S
Studies on integrated treatment system for industrial waste and recovery of value added products	Kumar A	Mandal T
Fermentative production of L-Asparatase by using an unique fungus	Kumar MD	Mandal T
Optimization and preparation of targeted drug delivery system against degenerative liver diseases	Hazra M	Mandal T
Experimental study on the role of hybrid technology of leather industrial wastewater for reduction of toxic effects	Kannujiya MC	Mandal T
Synthesis of Bioethanol from rice straw using bioreactors	Mukherjee A	Mandal T
Study on management of pharmaceutical industrial waste water by AOP	Sarkar KK	Mandal T
Isolation and characterization of Micro-organisms/Micro-algae from North East region and Eastern Coal mines for Bio-Sequestration of CO ₂ and its Utilization towards Generation of Bio-fuel	Mondal M	Halder GN Mandal MK
On the bubble dynamics	Kumar J	Paruya S Ghanta KC
On the stability of multiphase systems	Layak D	Paruya S Sarkar JP
Multi-size Particulate Flow & Erosion prediction in U Bends	Mishra J	Ghanta KC Mullick AN
Hydrodynamics and Thermal studies for flow of particulate slurries	Mishra S	Ghanta KC Mullick AN
Modeling and Experimental Investigation on Pyrolysis and Gasification of Biomass	Biswajit K	Gupta P& Sadhukhan AK

Department of Chemistry

Topic	Investigator	Supervisor(s)
Water Molecular Dynamics Study of Human Ransthyretin (TTR) and its Mutated Forms	Banerjee A	Mukhopadhyay BP
Corrosion Inhibition of Brass and Aluminium Alloy In Chloride Solution	Banerjee R	Nandi MM
Evaluation of Arsenic Contamination in Groundwater, Soil, Vegetation through Food Chain and its Impact on the Environment	Chandra S	Saha RN 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 S	Patra AK
Spatial and Temporal Variations of Ambient Air Quality in Burdwan Town, West Bengal	Chattopadhyay S (Regd. with B.U.)	Saha RN Gupta S. (B.U.)
Electron donor acceptor interactions involving coal derived asphaltene in homogeneous and heterogeneous media: a spectroscopic study	Chaudhury P	Panja S.S.
Lipid and fatty acid analysis of different freshwater fishes under different cooking condition	Das B	Chakrabarty J
Synthesis Characterization and Biocatalytic Activity of Some Transition Metal Complexes with Different Chelating Ligands	Dey D	Milan Maji Bhaskar Biswas (Rahunathpur College)

Topic	Investigator	Supervisor(s)
Effect of some heterocyclic bases on the corrosion inhibition of mild steel in acid medium	Dutta A	Sukul D
Treatment of wastewater generating from Textile industry by nano materials (nZVI), nano-Fenton's and UV radiation	Dutta S	Saha RN
Assessment of chemical and physico-chemical properties of micro and macro algal lipids for biodiesel production	Guha TS	Chakrabarty J
Isolation, Purification and Structural Characterization of Polysaccharides from Some Indian Fruits	Hazra S	Adhikari U
Copper Complexes and Their Reactivity Studies Relevant to Biological Copper Sites	Maji R C	Patra Apurba K
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 T (Regd with BU)	Saha RN
A MD Simulation study on the human IMPDH structures and its complexes	Mishra DK	Mukhopadhyay BP
Kinetic and mechanistic studies of substitution on square planar d ⁸ metal complexes with special emphasis on sulphur containing bioactive ligands	Misra K	Moi SC
Aspects of substitution reaction on Pt(II) and Pd(II) metal ion system by important biomolecules in aqueous medium: their kinetics, mechanism, bioactivity and speciation study	Mitra I	Moi SC
Effect of exogenous phospholipids on sperm plasma membrane structure and function in relation with cryopreservation	Mondal R	Chakrabarty J Maji M
Study of some biopolymers as corrosion inhibitor of mild steel in acid medium	Pal A	Sukul D
Treatment of wastewater generating from Chlor-alkali industry by advanced Oxidation Process	Pobi KK	Saha RN
Development and validation of analytical method by liquid chromatography for analysis of some retinoid & vitamins derivatives, antifungal, steroids and non-steroidal anti-inflammatory drug products	Roy C	Chakrabarty J
Isolation, Purification and Chemical Investigation of Polysaccharides from <i>Citrullus lanatus</i> and <i>Syzygium samarangense</i>	Roy S	Adhikari U Sukul D
Bio-molecular interaction on palladium and platinum (II) complexes in aqueous medium by sulphur containing ligands: their kinetics and mechanism	Samanta A	Moi S C
Development and study of Pyrene-based fluorescent sensors along with their applications	Sarkar S	Panja SS
Structure and Interaction Studies of some Nucleotide Molecules with the different Ligands by X - ray Crystallographic Methods	Sengupta DK	Mukhopadhyay BP Das SB
Development of New Molecular Device for Sensing Physiologically Important Metal Ions	Sikdar A	Panja SS

Department of Civil Engineering

Topic	Investigator	Supervisor(s)
Modeling and analysis of flexural strength of reinforced concrete beams with corrugated glass fiber reinforced polymer composites	Aravind N	Samanta A K Singha Roy DK Thanikal JV
Vehicle induced Vibration and their effect on high rise buildings	Banerjee A	Topdar P Datta AK
Three Dimensional Finite Element Modeling of Reinforced Concrete Slabs	Chattopadhyay A	Ghosh S N & Samanta A K
Application of Soft Computing technique in damage detection of structures	Das S	Datta AK Topdar P
Characterization and development of eco-friendly concrete using Industrial Waste	Kumar R	Samanta A K Singha Roy DK

Topic	Investigator	Supervisor(s)
Modeling and analysis of flexural strength of reinforced concrete beams with corrugated glass fiber reinforced polymer composites	Aravind N	Samanta A K Singha Roy DK Thanikal JV
Bridge Health Monitoring and Strengthening	Lahiri N	Topdar P Datta AK
Effect of high-speed train induced vibration on adjacent structures	Mukherjee R	Datta AK Topdar P
Investigation on Stability and Ovaling of Cylindrical Shell Wall of Ground Elevated RC Silo under Lateral Load.	Patra P	Samanta A K
Thermo-mechanical effects on sustainable concrete containing industrial waste	Sahani AK	Samanta A K Singha Roy DK
Structural Investigation using Acoustic Emission Technique	Sengupta S	Datta AK Topdar P
Seismic behaviour of RCC joints	Sinha B	Datta AK Topdar P

Department of Computer Applications

Topic	Investigator	Supervisor(s)
Functional Specification of Software as a Service for Data Centric Cloud Applications	Mandal AK	Sarkar A
Transaction Management Framework for Semi Structured Database System	Ganguly R	Sarkar A
Design of an Architectural Framework for Dynamic Web Services	Ahmad F	Sarkar A
A Study on Design Specification for Component Based Software System	Banerjee P	Sarkar A
Modeling of Multi Agent System Dynamics	Chatterjee RK	Sarkar A
Ontology Driven Domain Specific Software Design	Banerjee S	Sarkar A
Analysis and Specification of an Inter-Cloud Architecture: An Abstraction Model	Khan G	Sarkar A Sengupta S (BPPIMT Kolkata)
Object based Image Steganography for Robust and Secure Data Hiding	Roy R	Changder S
Building a pluggable sharding subsystem for MySQL	Venkateswaran N	Changder S

Department of Computer Science and Engineering

Topic	Investigator	Supervisor(s)
EHD Printing	Ball A K	Kisku DR Roy SS (ME) Murmu NC (CMERI)
Study And Analysis of Information Hiding	Banerjee I	Sanyal G
Testing Strategies for FPGA Architectures	Banik S	Roy S
Studies on Multicast Routing and Wavelength Assignment in WDM Optical Networks	Barat S	De T
A Hierarchical Set of Super Classifier for Fast Individual FacialExpression Identification	Bhakta D	Sarker G
Power Efficient Architectural Designs	Chandrakar K	Roy S

Topic	Investigator	Supervisor(s)
A Study on Some Routing Energy and Security Issues Concerning The Delay Tolerant Network	Das P	De T
Some Methodologies for Decision Making in Uncertain Environment	Das S	Pal T Kar S
Object Tracking and Pattern Matching	Dev D S	Kisku DR
Designing Neural Network Algorithms for better Performance Analysis	Dey P	Pal T
Some Optimization Problems on Fuzzy Graphs	Dey A	Pal T Pal A
Biometrics Systems	Garain J	Sanyal G Kisku DR
Human Activities Tracking and Analysis for Visual Surveillance	Hossain A	Sanyal G
Studies of Hybrid Soft Computing Methods for Decision Making Problems in Uncertain Paradigm	Kar Mahuya B	Pal T Maity M (VU WB)
Visual Surveillance	Kumar R K	Sanyal G Kisku DR
A Set of Super Classifier Combination for Efficient Biometric Identification	Kundu S	Sarker G
Optimization using Fuzzy Logic and Genetic Algorithms	Majumder S (Full Time) DST-INSPIRE Fellow	Pal T
New SAT based Solutions in VLSI Physical Design Automation	Mukherjee S	Roy S
On Multi-objective Evolutionary Optimization : Algorithms, Performance, Measures and Applications	Nag K (Registered in JU Kolkata) DST-INSPIRE Fellow	Mudi RK (JU, Kolkata), Pal, T, Pal, NR (ISI, Kolkata)
Efficient Communication between Optical and Wireless Hybrid Networks	Naik D	De T
Multi Agent Based Information Exchange in Adhoc Network	Paul M	Sanyal G
Multicast Traffic Grooming with Survivability in WDM Mesh Networks	Pradhan A	De T
Swarm Intelligence	Pradhan M	Pal T
Analysis And Development of Entropy based Classification Algorithm of Synthetic Aperture Radar Images	Samanta D	Sanyal G
A Novel Approach To Enhance Security of Data Using Invisible Digital Watermarking Tagged with encryption	Samanta S	Sanyal G
Cloud Monitoring Security Issues in Forensics Application	Saxena S	Sanyal G
Study and Analysis of English Alphanumeric Character recognition	Sha B	Sanyal G
Detection and Mitigation of DDOS Attack	Singh K J	De T

Department of Earth and Environmental Studies

Topic	Investigator	Supervisor(s)
GIS based land resource evaluation and management for agricultural sustainability in an affected area of coal-fired thermal power plant	Adak S	Adhikari K Brahmachari K
Impact of chemical pesticides and fertilizers on the environment as a whole – A case study	Adhikary M	Gangopadhyay A Bramhachari K

Groundwater occurrence and quality assessment in north-western and north-eastern part of Bankura district, West Bengal	Bajpayee S	Adhikari K Chatterjee PK Ruj B
Reappraisal of the depositional setting of Upper Barakar coal bearing strata from Raniganj Basin, India- a sedimentological, ichnological and coal petrographic approach	Banerjee S	Adhikari K Bandyopadhyay D
A comprehensive study on Environmental Management System (EMS) as practiced in selected industries in West Bengal, India and its impact on society	Ghosh BM	Gangopadhyay A
Detection of subtle and obscure structures in Bengal basin, India using integrated remote sensing studies with special reference to Hydrocarbon exploration in the Basin	Mazumder S	Adhikari K Mahapatra S Mitra DS
Development of filter media and system for high temperature applications	Nayak SK	Adhikari K Datta S
The Tectonics of Eastern Segment of Delhi Fold Belt, Southeast of Beawar, Rajasthan	Saha P	Gangopadhyay A Mukhopadhyay D

Department of Electrical Engineering

Topic	Investigator	Supervisor(s)
PID Controller Tuning of Load Frequency Control using Soft Computing Technique	Pain S	Acharjee P
Optimal placement and sizing of facts devices and distributed generation in power system	Roy GS	Acharjee P
PMU Placement using soft-computing techniques, post-mortem analysis and state estimation with PMU data	Maji TK	Acharjee P
Some Aspects on Dynamics and Control of Switch Mode Power Converters	Ghosh A	Banerjee S
Load Frequency Control of Non-linear Controller based multi-area Power System Network using various Evolutionary Algorithms	Guha D	Banerjee S Roy P (JGEC)
Some Studies on Control and Modulation Strategies of Multilevel Converters Applicable for Drives and Photovoltaic's Applications	Giri S	Banerjee S Chakraborty C (IIT KGP)
Power Electronic application in power system	Mazumder K	Banerjee S Roy P (JGEC)
Chaos and Periodicity in Solar Wind Speed	Sarkar S	Banerjee S Khondekar H M
Periodic Compensation of Continuous-time Plants: Real-time Implementation	Chakraborty A	Dey J
Power System Stabilizer Design using Frequency Domain Approach	Das MM	Dey J Ghosh S
Modelling and Performance Analysis of Grid Connected & Stand-alone Photovoltaic Systems	Kumar N	Saha T K Dey J
Digital Control of Electric Drives	Swargiary M	Dey J Saha T K
Path Tracing of Mobile Robots using Soft computing Techniques	Panigrahi PK	Ghosh S Parhi DR
Optimization in DG and Capacitance placements in Distribution Feeders	Khan N A	Ghosh S Ghoshal SP
Study on Performance Improvement of Various Antenna Array Synthesis using Evolutionary Optimization Algorithms	Bera R	Mandal D Ghoshal SP Kar R
Study on Performance Improvement of Antenna Array Architectures using Evolutionary Optimization Algorithms	Das S	Mandal D Ghoshal SP Kar R
Optimized Designs of VLSI CMOS Inverter Analog Active Filters and Analog VLSI circuits	Dey B P	Kar R Ghoshal SP Mandal D

Topic	Investigator	Supervisor(s)
Application of evolutionary algorithms in Time Modulated and Beam Forming Antenna Array Synthesis	Hardel G	Mandal D Ghoshal SP Kar R
Application of evolutionary algorithms in Analog VLSI circuits	Mallick S	Kar R Ghoshal SP Mandal D
Evolutionary Optimization based Nonlinear System Identification	Pal P	Kar R Ghoshal SP Mandal D
Application of evolutionary algorithms in SRAM designs IIR system identification and 2-D IIR filters	Upadhyay P	Kar R Ghoshal SP Mandal D
Detection of Partial Discharge in High Voltage power apparatus using optical fibre based sensor	Sarkar B	Koley C Roy NK
An automated machine vision based system for grading of fruits according to quality and maturity	Nandi CS	Koley C Tudu B
Development of Detection Method for Harmonic Compensation of Variable Frequency Drives using Shunt Active Power Filters	Ghosh M	Koley C Roy NK
Model Based Control Framework for Pneumatic Conveying and Drying Process	Satpati B	Koley C Dutta S
Application of signal processing techniques for localization of partial discharge sources in high voltage systems using ultra high frequency (UHF) sensor.	Mishra DK	Koley C Roy NK
Doubly Fed Induction Generator Based Sensor less Wind Energy Conversion System	Kaur K	Mahato SN Saha T K Banerjee S
Analysis and Control of Isolated Induction Generators	Ray S	Mahato SN Roy NK
Accuracy enhancement of different measuring instruments	Chatterjee K	Mahato SN Chattopadhyay S

Department of Electronics & Communication Engineering

Topic	Investigator	Supervisor(s)
Studies on Performance of Cognitive Radio Networks with Efficient Spectrum Sensing and Spectrum Sharing	Bhowmick A	Dhar Roy S Kundu S
Studies on Multiband Operations of Microstrip Antenna	Bhowmik A	Bhattacharjee AK
Enhancing Energy Efficiency of 802154 Networks Using Relays	Biswas S	Chandra A Dhar Roy S
Studies on Data services in Power line channels	Chattopadhyay A	Chandra A Dhar Roy S
Study of Transport Characteristics in Bulk and Nano Structure Gallium Nitride	Chakraborty Saswata	Bhattacharjee AK
Relay based Cooperative Spectrum Sensing and Spectrum Sharing in Cognitive Radio Networks	De CK	KunduS
Relay node placement for maximizing energy efficiency in wireless networks	Ghosh B	Chandra A Mal AK
Studies on Cognitive Radio Femto Cell Networks	Ghosh J	Dhar Roy S
Uncoordinated Cooperative Communication Schemes with Security Enhanced Energy Efficient Relays	Maji P	Dhar Roy S Kundu S
Resistive memory devices	Maji S	Mahapatra R
Beam Synthesis of Concentric Ring Array and Hexagonal Array Geometrics using Evolutionary Algorithms	Mandal D	Bhattacharjee AK
Computational Study of Quantum Breathers within Nonlinearity	Mandal SJ	Bhattacharjee AK

Topic	Investigator	Supervisor(s)
Change Detection and its Application in Monitoring Lesions in Human Body	Mitra A	Bhattacharjee AK
Graphene based materials for sensing application	Pal H	Mahapatra R Chatterjee S
Studies on Multiband Planar Bandpass Filters with Multimode and Integrated Resonators for Wireless Communication (submitted)	Pal M	Ghatak R Aditya AK Poddar DR
Synthesis of Mutually Coupled Dipole Antenna Array using Evolutionary Algorithms	Patidar H	Mahanti GK
Power Pattern Synthesis of Antenna Arrays through Time-Modulation	Patra S	Mandal SK Mahanti GK Pathak NN
Studies on Spectrum Sharing in Cognitive Radio Networks in Presence of Fading	Prasad B	Dhar Roy S Kundu S
A Statistical Signal Processing Approach to investigate the dynamics of Indian weather	Ray Rajdeep	Bhattacharjee AK
Studies on Vertical Handoff Algorithms in Next Generation Wireless Networks	Reddy S R V	Dhar Roy S
Various effects of Substrates in the design of Microstrip Antennas and their Applications	Roy Bappaditya	Bhattacharjee AK
Studies on the QOS and Mobility Management issues with THMIP Protocol	Saha Sajal	Bhattacharjee AK
Adiabatic logic circuits	Samanata S	Mahapatra R Mal AK
Design of Micro-chip for osteoblast cell characterization	Sarkar S	Mahapatra R Ghose M
Hybrid solar cell	Sinha M	Mahapatra R Ghose R
Design of Multilayer Microwave Absorbers using Evolutionary Algorithms	Tewary J	Mahanti GK
Efficient Spectrum Utilization for Cognitive Radio Network (CRN) with Distributed Detection in Spectrum Sensing	Yadav K	Dhar Roy S Kundu S

Department of Humanities and Social Sciences

Topic	Investigator	Supervisor(s)
A Comparative Study of the Select Novels of R. K. Narayan and Ernest Hemingway	Adhikari K	Modak A
Business Regulation in Respect of Consumer welfare- Consumer Protection in India related to Marketing.	Agwasti S	Sengupta PP
Cost-Benefit Analysis of Urban transport (Buses) of Kolkata	Banerjee A	Sengupta PP
Narrative Techniques in Marquez: A Critical Study	Banerjee S	Rai SK
Hindu Mythology and Indian English Fiction	Banerjee S	Rai SK
Micro-Pension Plans : Indian Perspective	Bhattacharya P	Chakrabarti BN
Effects of deregulation on efficiency productivity and financial performances of India's life insurance companies	Chakrabarty J	Sengupta PP
Whose Power is Perpetuated at the Expense of Whom: An Exploration into the Linguistic Function of Bengali Proverbs in Depicting Gender Differences	Chakraborty Bhunia A	Modak A
Social Cost of Environmental Pollution due to Carbon Emission and Economic Opportunity of Abatement of Measures in Developing Countries	Das D	Sengupta PP
Feminist Approaches—Indian and European—to Classical Women Characters with Special Reference to Draupadi Antigone Medea Lady Macbeth, Clytemnestra, and Sita	Das S	Modak A

A study of Social ,Economic and health condition of Assamese migrant labourers in kerala	Dutta, U	Sengupta PP
Neo-Colonial Undertones in Arundhuti Roy and Jhumpa Lahiri	Guha Roy S	Banerjee J
Mining Heritage Tourism- Preserving and Managing the Sites: A Study of Dhanbad (Jharkhand) in India	Hazra S	Sengupta PP
Diaspora & Economic Development of Homeland ; a Tale of Two Countries: India & China	Kahali A	Sengupta PP
Attitude towards Assisted Reproductive Technology	Lall S	Sengupta PP
Postmodern Elements in T S Eliot's Poetry	Mandal A	Modak A
Tagore in English Translation: A Postcolonial Perspective	Misra D P	Modak A
Professional Development for Teachers of English: Implications and Practices	Mondal D	Modak A
DISCERNING THE FAMILIAR – An insight into the women's condition during the Taliban Regime	Mukherjee M	Banerjee J
Knowledge Management and Human Capital Formation;A Case of NITs	Mukherjee U	Sengupta PP
North Eastern Issues in Indian English Novels	Paul AS	Rai SK
Survival as Triumph in Paul Auster's Novels	Pramanik A	Modak A
Transcendental Leadership and Social Responsibility: Management Insights from Rabindranath Tagore and Swami Vivekananda	Pyne S	Sengupta PP Modak A
The Fictions of Amit Chaudhuri: Creation of a Tradition	Roy Arnab	Banerjee J

Department of Information Technology

Topic	Investigator	Supervisor(s)
An Approach for Distributed Ontology Alignment	Adhikari A	Dutta A
Auction based cloud computing	Bandopadhyay A	Mukhopadhyay S
Internet of things and related issues	Banerjee N	Choudhury S
Vehicular AdHoc networks	Banerjee P	Choudhury S
Cardiac CT image segmentation	Banik SK	Nandi D
Agent Technology and Algorithms	Changdar N	Dutta A
An Eefficient Service Oriented Middleware for SOC in Mobile Ad Hoc Network	Choudhury B	Choudhury S Dutta A
Spectrum treading for cognitive radio in static and dynamic environments	Chowdhury AB	Mukhopadhyay S
Multiagent Based Algorithmic Approach For Railway Scheduling And Optimization	Dalapati P	Dutta A
Distributed Area Coverage by a Swarm of Mobile Robots	Das D	Namdi D
Optimal power flow incorporating different facts devices using evolutionary algorithms	Dutta S	Nandi D
Super-resolution reconstruction and image segmentation of b-mode ultrasound image	Ghosh D	Nandi D
Image reconstruction enhancement and multiplicative noise reduction using sparse image processing	Maiti S	Nandi D
On cryptography and auction theory	Mardi D	Mukhopadhyay S
Neighbour discovery using directional antenna	Mondal P P	Choudhury S
NLP based Knowledge Provider Systems	Mukherjee P	Chakraborty B
OCR on Bangla script	Mukhopadhyay A	Chakraborty B
Design of Low Cost Low Resolution Single Camera based Stereo Vision System for Computer Vision Application	Murmu N	Nandi D
Big Data Analytics	Namtirtha A	Dutta A
Agent Technology and Algorithms	Roy A	Dutta A
CBR Applications on Emergency situations Diagnostics and Decision Making	Roy D	Chakraborty B

Topic	Investigator	Supervisor(s)
An Approach for Distributed Ontology Alignment	Adhikari A	Dutta A
Auction based cloud computing	Bandopadhyay A	Mukhopadhyay S
Internet of things and related issues	Banerjee N	Choudhury S
Vehicular AdHoc networks	Banerjee P	Choudhury S
Cardiac CT image segmentation	Banik SK	Nandi D
Agent Technology and Algorithms	Changdar N	Dutta A
Semantic Query Optimization in Distributed Graph Database	Sen S	Dutta A
Auction aware e-healthcare and its relation with participatory sensing	Singh V K	Mukhopadhyay S
Agent Technology and Algorithms	Sinha P K	Dutta A
Computational Social Science and FDI in retail with influencing networks	Sushma	Choudhury S
Digital Watermarking, Steganography and Copyright Protection	Tiwari, G	Nandi D

Department of Management Studies

Topic	Investigator	Supervisor/S
A study of evolution, growth and decline of small brands of apparels in India	Arora N	Banerjee N
Developing a Model for Better Utilization of Hospital Resources	Bandyopadhyay S	Dutta A Bandyopadhyay G Sanyal G
Capital Structure Determinants and Decisions during Pre and Post Period of the Recent Financial Crisis in Global Economy: An Empirical Study on Indian Scenario	Banerjee A	De A
A Study on Predictability of Stock Returns and Behavioral Biases	Banerjee A	De A
An Empirical Investigation Of Credit Rating Of Debt Instruments Of Private Sector Undertakings In INDIA	Banerjee S	Bandyopadhyay G
A Quest for Relationship among CSR, Marketing Activities and Business Performance: A Cross Industry Comparison on Indian Firm	Banerjee S	Mondal K
Cross-Sectional Analysis of Share Buy Back on Companies' Performance and Investors' Wealth In Indian Context	Bhattacharjee B	Dutta A
Role of Product Information on Purchase of Durables- A Competitive system on low literacy Urban language in the State of West Bengal	Bhattacharjee M	Bandyopadhyay G
Role of Mental Accounting in Influencing Investing and Consumption Decision of Indian Investors: A Study of Behavioural Finance	Bhattacharyya SR	De A
Production Management through Optimisation strategy	Basu S	Roy M
Green Marketing Management in a Developing Economy	Biswas	Roy M
A study on Workspace Adaptability:An Indian Perspective	Bose S	Pal D
Wavelet Based Multi-Horizon Investment Analysis in an Economy Dominated by Heterogeneous Agents	Chakrabarty A	De A
Sustainable Development in Educational Institutions	Chakraborty A	Roy M
Investigating and Forecasting the financial Performance and Operational Efficiency of Indian Paint and allied Industry	Chakraborty S	Bandyopadhyay G
Application of Management Tool to Control Inherent	Chatterjee S	Bandyopadhyay G

Risk from Liquefied Petroleum Gas (LPG) & Developements of Maximum Credible Loss Model for Durgapur, WB		
Benefits & issues of coal mining on the socio economic environment in Asansol Raniganj coal field area with emphasis on formulating management strategies	Dan S	Dutta A
Understanding Various Facets of Purchase Involvement; A Study of Burdwan , WB	Dasgupta (Banerjee) M	Mondal K
Towards Developing an Effective Strategy for Employee Retention in IT Organization	Dutta M	Dutta A
Developing strategies and algorithm for multicasting over optical burst switched networks to enhance Economic value for end users through QOS policies	Datta S	Dutta A
Information & Communication Technology and E-Business Support for Indian MSMEs	Gayen A	Roy M
Frauds in Public Sector Banks of India: A Study to Find out the Factors and Impact	Ghosh SK	De A
Attitude of Indian young generation towards online marketing	Ghosh D	Banerjee N
Forecasting of Scenario of Indian Financial Market using operations Research Technique	Guha B	Bandyopadhyay G
Petrochemical Business in Asia: Management Strategy in Post-Globalized Era	Khastagir D	Roy M
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 D	Dutta A Mondal S
Relationship between Banking Insurance and Economic growth in India	Kaushal S	Ghosh A
Financial Analysis and Planning in Urban Local Self Governments: A Theoretical and Empirical Study	Mahapatra MS	De A
The Influence of Corporate Culture on Organisational Commitment-Evidence from Selective Hospitality Industry In India	Mitra M	Bandyopadhyay G
An empirical study on the impact of social media to facilitate the effectiveness of marketing	Mukherjee K	Banerjee N
Assessing service quality gap and customers satisfaction of commercial banks in India with special reference to the state of west Bengal	Mukhopadhyay S	Dutta A
Study on Nature of Relationship Between Channel Power and Influence Strategy Visa-A-Vis Channel Management Practices Prevalent in India	Roy K	Mondal K
Dynamics of Operation & Management of selected polluting industries	Sarkar S	Roy M
A study on various aspects of consumer behavior in context to different products and services –A comparison between consumers in India and USA	Samanta J	Banerjee N
The impact of integrated marketing communications on profit– A study of Indian firms	Siddhanta S	Banerjee N
Sustainable Management Strategies for small scale industries	Singh MP	Roy M
Psychological contract and its relevance to Employment Relationship	Thomas A	Dutta A

Department of Mathematics

Topic	Investigator	Supervisor(s)
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Topic	Investigator	Supervisor(s)
Study on a class of Optimization \square \square problem in 2-Banach Spaces	Adak U	Dey L K and Samanta HK
The Design of Sustainable Green Supply Chain in Managing Electronic Waste	Bandopadhyay A	Pal A Das PK
Mathematical Models of Some Decision Making Problems using Soft Computing Techniques	Das D	Kar S and Roy A
A Study of Some New Topological Indices of Graphs	De N	Pal A Nayeem SMA
Some Optimization Problems on Fuzzy Graphs	Dey A	Pal A Pal T
Application of Fuzzy Mapping in different Real Life Problems	Ghosh D	Pal A
Study of Some New Codes and their Supporting t-Designs	Ghosh D	Dey L K
Portfolio selection by Fuzzy Expert System	Gour Sundar M T	Sarkar (Mondal) S and Bhattacharya R
Synchronisation in complex networks	Mauparna N	Pal P
Fuzzy Graphs and its Application	Mishra S	Pal A
Some New Probability Distributions: Properties and Statistical Inference	Mithu D	Sarkar (Mondal) S and Maity S S
Formulation of lower bounds for multiple covering codes and study of their corresponding designs	Mondal S	Dey L K
Some types of fixed point theorems and their applications	Tanusri S	Dey L K
Study of metric fixed point theorems and its applications	Ankush C	Dey L K
Cryptography	Joydeb P	Bagchi S
RFID Security	Maurya P K	Bagchi S
A Study on Website Search Techniques	Mondal S	Pal A
Application of Operations Research in Industry and Management	Mukherjee B	Basu K
Fuzzy Mathematics and its Applications in Society	Mukherjee S	Kar S
Studies on vibration stability on flexible structure	Nandi P	Kar S Gorain G
Reliability Modelling and Analysis of an Industrial System	Narayanan P	Pal A Rizwan S M
Synchronisation in complex networks	Mauparna N	Pal P
A study on fuzzy graphs and interval valued fuzzy graph	Mishra S	Pal A
Labelling of graphs and Hypergraphs	Poulomi G	Pal A
Restricted domination problems on graphs	Angshu K S	Pal A
Mathematical Models of Some Decision Making Problems in Different Environments	Saha A	Kar S Maiti M
Supply Chain Modelling and Prediction	Sarkar S	Kar S
Analysis and Optimization of Coal Mine Production and Operation Management System	Mandal S	Sarkar (Mondal) S and Ghosh AK
Data Mining Techniques for social network analysis	Mondal S	Pal A
Bifurcations and patterns in Rayleigh-Bénard convection of low Prandtl-number fluids	Dan S	Pal P

Topic	Investigator	Supervisor(s)
Some studies on Optimum design of Electro Magnetic field	Jyotirmay T	Basu K Mohanty GK
Routes to chaos in Rayleigh-Bénard convection	Nandukumar Y	Pal P
Effective Management of Present Day Challenges in Project Management	Chowdhury A	Sarkar (Mondal) S
Nonlinear Waves in Dusty and Quantum Plasma	Banerjee G	Maitra S
Stochastic Modelling in Ecology and Epidemiology	Kundu S	Maitra S
Multi-objective Multi Criteria real life transportation Problems under fuzzy environment	Kour D	Basu K and Mukherjee S
A Study on some network problems under Uncertain Environment	Mandal K	Basu K and Mukherjee S
Exploring different real life assignment problems Under fuzzy environment	Kar S	Basu K and Mukherjee S
A study to explore the quality of education and Facilities offered by private engineering institute In Asansol Durgapur Region	Nayak S	Basu K and Das A
Different aspects of modelling on CSR with bureaucracy	Debnath A	Kar S and Dey J K
Studies on Mathematical Methods for Portfolio Selection Problems in Uncertain Environment	Hossain	Kar S and Bhattacharyay R
Modelling of some decision making problem with uncertainty in optimization framework	Chatterjee A	Kar S
Supply chain risk assessment and its management	Chatterjee K	Kar S
On Some Optimal Control Problems in Uncertain Environments	Roul J N	Kar S Maity K & Maiti M
Time Series Forecasting using Soft Computing Techniques	Paul S S	Kar S
Development of Uncertainty based Modelling of Integrated Dynamical Risk Analysis in Complex Environmental Matrices	Bandyopadhyay A	Kar S and Datta D

Department of Mechanical Engineering

Topic	Investigator	Supervisor(s)
Optimisation in Assembly Line Balancing Problem	Adhwarjee D K	Majumder MC Banerjee N
Investigative study of 'Stirling Engine' based Solar Thermal Power Generation	Azad M S	Layek A
Investigation on Geometry and Size Effects in Micro-EDM	Barman S	Puri AB Nagahanumaiah (CMERI)
Analysis of bimodular composite material laminated sandwich plate	Chell G C	Khan K
Multi Echelon Inventory Management	Das D	Hui N B
Modeling and Analysis of machine Tool Dynamics for Prediction stability against Chatter using Bond Graph	De J	Banerjee N Saha A K
Modelling and Analysis of Cutting Forces and Tool Wear in High Speed Ball-end Milling Process	Dikshit M	Puri AB Dr Atanu Maity (CMERI)
Numerical Investigation of Micro-scale Fluid Flow and Heat Transfer	Dutta S	Pramanik S

Topic	Investigator	Supervisor(s)
Investigation on fluid flow and heat transfer of solar air heater having artificially roughened absorber plate	Gharai S K	Layek A
Modal Analysis of Structure for damage Detection	Karanjkar A V	Banerjee N
Investigation of the effect of Injection Pressure on performance, emission and combustion characteristics of a variable compression ratio CI engine using different biodiesel blends	Kathirvel S	Layek A
Analysis of bimodular composite material laminated curved beam	Kumar A	Khan K
Performance analysis of solar air heater having artificial roughness	Kumar A	Layek A
Residual life improvement of Thermal power plant	Kundu S J	Banerjee N Bhattacharya C (NPTI)
Design, Development, Testing and Optimization of a Vehicle Suspension System (Thesis Submitted)	Mitra A C	Banerjee N
Analysis of bimodular composite material laminated beam	Nasir H Sk	Khan K
Development of automated predictive model for rotary milling process	Podder Bikramjit	Hui N B
Coordinated Navigation of Multiple Wheeled Robots	Buddhadeb P	Hui N B Sinha Roy D (NIST)
Process Modelling, Optimization and Characterization of Friction Stir Welding for Joining Dissimilar Aluminum Alloys(Thesis Submitted)	Saravanan V	Banerjee N Amuthakkannan R (CCE, Oman)
Dynamic Analysis and Control of Flexible Manipulator Using Soft Computing technique	Sarkhel P	Hui N B Banerjee N
Modeling of Psychosis data using soft computing	Srivastava A	Hui N B Chattapadhyay S (Nationwide)
Performance Evaluation and Simulation of an Aero Engine Compressor Shrouded Blade	Vinayaka N	Banerjee N BS Ajay Kumar (BIT, Bangalore)

Department of Metallurgical & Materials Engineering

Topic	Investigator	Supervisor(s)
Synthesis and characterization of metallic glass matrix composite	Shubhadeep M	Bera S Show BK
Development of Sail-tower steels through Thermo-mechanical Processing route	Prasenjit D	Mandal D
Application of carbon nano-composites in dye sensitized solar cells	Sarkar A	Bera S and A Chakraborty (Physics)
Mechanism of microstructural modification and subsequent improvement in properties by semi-solid heat treatment of some non-ferrous alloys	Bandyopadhyay B	Bhattacharya A Mallik M
Structure-property correlation on ZrB ₂ based ultrahigh temperature ceramic composites	Rudra Paul T	Mallik M Mondal MK
Transient liquid phase diffusion bonding of aluminium based metal matrix composites	Roy P	Pal TK (Jadavpur University) & Maity J
Development of high strength ductile steels by cyclic heat treatment involving reconstructive and displacive phase transformations	Mishra A	Maity J
Development of aluminium based metal matrix composite systems with hybrid reinforcements processed through powder metallurgy route and comparative study of their properties	Saha S	Ghosh M (BESU, Shibpur) & Maity J

Novel mathematical modeling approaches for solid state phase transformations in steel	Sushanthi PN	Maity J
Design and Development of Highly Efficient Water and Ethylene Based Nanofluids Containing Cu-Ag Alloy Nanoparticles for Advanced Heat Transfer Applications	Das S	Ghosh M M
Multiscale Model Based Design and Development of Copper Based Nanocomposites with Alloy Nanoparticles Reinforcement for Applications in the Advanced Electronic Devices	Bandyopadhyay K	Ghosh M Mand Ghosh K S
Coupled MD-FEM Modelling and Development of Copper Based Graphene Nanocomposites with High Strength and Good Conductivity for Use as Efficient Heat Sinks in Advanced Electronic Devices	Das DK	Ghosh M M
Microstructural, Mechanical and Electrochemical Behaviour of High Alloy Chromium Cast Irons	Mondal SS	Mondal D K & Ghosh K S
Assessment of Microstructural, Mechanical and Electrochemical Behaviour of Various Dental Amalgams of Various States	Dutta (Chowdhury) N	Ghosh K S
Reo-pressure die casting of Al-Mg-Si-Sc In-situ TiB ₂ composites	Surla R	Ghosh K Sand Bera S
Assessment of structure -high strain rate deformation behaviour of Materials	Acharya S	Ghosh K Sand Mondal D K

Department of Physics

Topic	Investigator	Supervisor(s)
Investigation on the Mechanical Properties of Carbon-Nanotube Based Composites	Agarwalla Rajesh Kumar	Chakraborty AK Mitra AK
Phenomenology of Z' Boson, B Mesons and New Physics Beyond the Standard Model	Banerjee Debika	Sahoo S
Synthesis, characterizations, linear and non-linear optical properties of some noble metal nanostructures	Biswas S	Kumbhakar P
Carbon nanotube & graphene based metal oxide nanocomposites for supercapacitors	Chakrabarty N	Chakraborty AK
Application of TiO ₂ nanoparticles in optoelectronics & bio medical field	Chakrabarty S	Mondal A Saha A K
A Study on the Transport Properties of Thin Films and Alloys	Chakraborty G	Meikap AK
Interface & load transfer in carbon nanoparticle based epoxy nanocomposites	Chakraborty S	Chakraborty AK Barbezat M (EMPA, Switzerland)
Investigations on synthesis and optical properties of some ZnO nanostructures	Chakraborty S	Kumbhakar P
Studies on Chaos based Secure Communication Systems	Chattopadhyay D	Mandal MK
Mathematical modelling of hydro-geothermal data to study the nonlinearity of geothermal reservoir	Chatterjee R	Chaudhuri H
Synthesis of Polymer Nanocomposites and its Electrical Magnetic And optical Properties	Choudhury S	Meikap AK Mandal MK
Development and Characterization of Polymer-Nanocomposites for Enhanced Dielectric Properties	Das A K	Meikap AK
Studies on Generation and Synchronization of Chaos in Discrete Systems	Das A K	Mandal MK
Z' -Boson, B-Mesons and New Physics	Das C K	Sahoo S Maharana L(UU)
Enlarged photo efficiency of glancing angle deposited axial SiO _x -TiO ₂ heterostructure nanowires and nitrogen doped TiO ₂ nanowires based photodetectors	Dhar J C	Mondal A

Topic	Investigator	Supervisor(s)
The Effect of the Dopant of the Electron Transport Properties in Conducting Polymers at Ambient and Cryogenic Temperatures	Ghosh P	Meikap AK
Some Alternative Studies for Developing Ultra-fast all Optical Signal Processors using Optical Nonlinear Materials	Ghosh P	Kumbhakar P & Biswajit Sen (Vidyasagar Teacher's Training College, Midnapore)
Studies on Dynamics of the localized modes of ferroelectric materials with defects	Pradipta G	Mandal MK Biswas A
Optical and Electrical Properties of Polymer-Nanocomposites	Goswami M	Meikap AK R Ghosh
Graphene based gas sensors	Chatterjee SG	Chakraborty AK Ray AK SMIT, Sikkim
Investigations on multi-parametric and multi-station based geochemical precursors for Earthquakes	Gupta T	Gangopadhaya A Chaudhuri H
Synthesis and Characterization of Rare Earth Ortho Ferrite Nanocomposites	Hossain M	Basu S Pal M (BU)
Phenomenology of Z' Boson, B Mesons and Higgs Boson	Kumar M	Sahoo S
Studies on Chaotic Cryptography for Image Communication	Kar M	Mandal MK
Preparation and characterization of advanced polymer composites with carbon nanostructures	Meriga V	Chakraborty AK
Investigation on Geochemical and Geophysical aspect of Geothermal Exploration at Bakreswar-Tantloi Geothermal Area	Maji C	Chaudhuri H
Temperature evolution of symmetry energy and the properties of neutron star matter with phenomenological effective interactions	Mohanta S	Sahoo S Sahoo B (TDB College, Ranigang)
Ring Oscillator and its Applications in Communication Systems	Mondal H	Mandal MK
Title to be defined	Mondal S	Chakraborty AK Basu S
Some non-linear material based optical logic processor and their applications for high speed Computation and Communication Systems	Mukherjee K	Meikap AK Kumbhakar D
Electrical Transport Properties of Inorganic and Organic-Inorganic Nanocomposites	Mukherjee PS	Meikap AK
Studies on Ag nanoparticles designed TiO ₂ nanowire based photodetector and effects of substrate	Ngangbam C	Mondal A Deb S
Carbon nanotube-polymer composites: synthesis and Characterization	Pal S	Chakraborty AK Mittra AK
Microstructure, Electrical and Optical Characterization of Some Industrial Nanocrystalline Materials Synthesized By High Energy Ball Milling	Sourav S	Meikap AK Pradhan SK
Application of carbon nanostructures in dye-sensitized solar cells	Sarkar A	Chakraborty AK Bera S (MME)
Detection of partial discharge in high voltage equipments using Fiber-optic sensor	Sarkar B	Roy NK Kole C & Kumbhakar P
Properties of Indium doped TiO ₂ & application in optoelectronics	Sarkar MB	Mondal A Bhattacharya P
Studies on GLAD synthesized SiO _x /In _{2-x} O _{3-y} axial heterostructure nanocolumn arrays as an efficient optical detector and humidity sensor	Singh NK	Mondal A
A study on electrical transport properties of some rare earth chromate nanocomposites	Sinha R	Meikap AK Basu S
Electrical Transport Properties of Some Nanostructured Selenides and Selenide based Polymer Nanocomposites	Sinha S	Meikap AK Chatterjee S K

Topic	Investigator	Supervisor(s)
Development of Dye Sensitized Nanocrystalline Solar Cells	Usha K	Kumbhakar P Mandal BN (CMERI)

Annexure - 11.4(g) ii Proposed Doctoral Programme

Department of Biotechnology

- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Bacterial cellulose
- Biodegradation of pesticides
- Biofuels
- Bionanotechnology
- Biopesticides
- Bioprospecting microbial diversity for macromolecules
- Bioremediation
- Cancer Biology
- Developmental Biology and Signal Transduction
- Environmental Microbiology and Biotechnology
- Extraction and application of natural dye
- Inflammation and Cell Signaling
- Microbial genomics and metagenomics
- Biopigments
- Microbiology of arsenic contaminated groundwater
- Molecular mechanism of inflammation
- Molecular Plant Pathology
- Parasite immunology and cell signaling
- Parasite metagenomics
- Petroleum microbiology
- Plant Biotechnology
- Screening of Novel Enzymes

Department of Chemical Engineering

- Acetic acid production in membrane-integrated bioreactor system
- Arsenic removal by membrane technology
- Biochemical Utilisation of Petroleum Wax (Biochemical Conversion / SCP Production)
- Biological treatment of coalmine waste water
- Biodiesel Synthesis from Microalgae Oil and Neem Oil
- Bubbling Fluidized Bed Combustion
- Carbon di oxide sequestration using microalgae
- 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
- Defluoridation of contaminated groundwater by bioremediation
- Design and Analysis of Circulating Fluidised Bed Bioreactors employing
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal-Defluoridation of wastewater using low-cost adsorbent
- Diesel Particulate Filter-A CFD Modelling
- Dynamic modelling of integrated coke-oven wastewater treatment plant
- Fluidized Bed Combustion
- Gas-Solid reaction kinetics in converging vertical riser
- Heterogeneous catalysis for the for the production of biodiesel
- Immobilised Enzyme Nanoparticles
- Inverse fluidization
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore

- Methane enrichment by TSA technology
- Modelling of Diesel Particulate Filter (DPF)
- 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
- Novel Techno-economic Evaluation for Conversion & Re-refining of Used Lubricating Oils to Base Oil
- Oil Suspension
- Oxyfuel combustion coal in fixed bed and fluidized bed
- Energy from waste tyre
- Pressure Swing Adsorption Mechanism for Separation
- Production of Biodegradable Plastics (PLLA) from Cheese Whey
- Phycoremediation of heavy metals
- Pyrolysis of weeds
- Removal of phenol using shale
- Slurry Flow Modelling
- Studies on gas separation by nano-composite membrane
- Surface modification of activated carbon by inert gas activating agent

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 Petro-Chemical, Pharmaceutical & Coke-Oven Wastewater.
- Change in sperm lipids during different cryopreservation conditions
- 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
- Isolation, Purification, Characterization and Chemical Modification of Polysaccharide
- Kinetics and mechanism of inorganic and bioorganic reactions
- Kinetics and mechanistic investigation of *cis*-platin like systems with the bio- molecules and bio-inorganic reactions: Their Bioactivity, Speciation and DFT study
- Lipid Chemistry in the field of biodiesel production
- Modulation of cell membrane by integrating external lipid
- Protein structure and dynamics
- Quality and quantity of different lipids in natural food resources
- Spatial and Temporal Variations of Ambient Air Quality
- Surface Chemistry
- Synthesis and application of nanomaterials for the reduction of environmental contaminants
- Synthesis and Characterisation of Cu- & Fe complexes

Department of Civil Engineering

- Computational Mechanics of Concrete Structures
- Computational Mechanics of Shell Structures under Lateral load
- Computational Mechanics of Smart laminated Composite Structures
- Development of Smart Concrete Structures using Shape Memory Alloy to withstand Time Dependant Effects
- Experimental mechanics of Concrete Composites.
- NDT and evaluation of Concrete Structures /Advanced materials.

- 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 System
- Software Engineering
- Steganography
- Mobile Computing

Department of Computer Science & Engineering

- Affective Computing
- Artificial Intelligence
- Biometrics Systems
- CAD for VLSI
- Data Mining
- Fuzzy Decision making
- Fuzzy Graph
- Machine Learning
- Mobile Computing
- Optical Networks
- Optimization and Genetic Algorithm
- Pattern Recognition
- Software Engineering
- Swarm Intelligence
- Testing and Verification of Circuits

Department of Earth and Environmental Studies

- Environmental impact on coal mining areas
- Fluoride removal technique from groundwater
- Groundwater availability and its management
- Groundwater contaminant transport and its removal
- Impact of industrial pollution in the environment
- Use of remote sensing in detection of subtle and obscure geological structure

Department of Electrical Engineering

- AGC with renewable energy systems, FACTS and PSS in restructured power systems
- Control and Trajectory Tracking of Multi-link Robot arm manipulator
- 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
- Investigation of Haematological disorders from blood cells using soft computing techniques
- Modelling of breakdown voltages using soft computing techniques
- On-line Monitoring of Partial Discharge in Transformer Oil
- Optimal Power Flow Studies
- Optimization in DSP Filter Designs
- Power System Stabilizer
- Design & real-time Implementation of Periodic Control for Non-minimum Phase time Delayed systems
- Price Forecasting
- Side Lobe Reduction in Antenna Arrays
- Small Signal Stability Analysis in Power Systems
- Synthesis and Characterization of Lanthanum Doped Barium Titanate Zirconate

- 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
- MEMS
- Nanoscale Semiconductor Devices
- Power Line Communication
- Resistive Memory Devices
- RF and Microwave Engineering
- Semiconductor Process Technology
- Underwater Acoustic Communication
- VLSI
- Wireless Communication
- Wireless relays and space-time coding

Department of Humanities & Social Sciences

- Feminism & Classical Literature
- T. S. Eliot & Postmodernism
- Tagore & Postcolonialism

Department of Information Technology

- Chaos and multimedia security
- Deniable and hierarchical crypto-systems
- Game theory based automated mechanism design
- Knowledge based systems
- Multi agent systems
- Optical networks – Burst and Coarse Packet switching
- Pattern recognition of medical images
- Semantic web and its applications
- Soft Computing Techniques for Bioinformatics systems
- Swarm robotics
- Synthesis and Testing of Digital Microfluidic Biochips
- VLSI Testing in Nano-scale Era

Department of Management Studies

- Human resource management
- Finance
- Marketing
- Environment Economics & Management
- Green Management
- Education Management

Department of Mathematics

- Bio-mathematics
- Coding Theory
- Cryptography
- Finite Field and Design Theory
- Fixed Pointy Theory
- Functional Analysis
- Fuzzy mathematics
- Geophysics
- Image processing
- Information and Coding Theory
- Nonlinear Dynamics
- Nonlinear Waves
- Operations Research
- Optimization of dynamics system

- Population Dynamics
- Portfolio Optimization
- RFID Security
- Soft Computing
- Statistical Analysis
- Theoretical & Computational Fluid Dynamics

Department of Mechanical Engineering

- Computational Fluid Dynamics
- Experimental analysis of composite structures
- Fault diagnosis, detection and isolation
- Heat Transfer
- Industrial Management
- Internal Combustion Engines
- Mobile Robot Navigation
- Non conventional machining
- Soccer playing robots
- Soft Computing
- Solar Energy
- Thermodynamics

Department of Metallurgical & Materials Engineering

- Environmental assisted cracking (EAC) (e.g. stress Corrosion cracking, hydrogen embrittlement and corrosion fatigue) of aluminium alloys and stainless steels and their weldments.
- Development of cast microalloyed steel.
- 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.
- Electrochemical behaviour of steel, Al-alloys, metal matrix composites and bio-materials (e.g. dental amalgam, Ti-alloys)
- High temperature corrosion behaviour of steel in Industrial environment
- Salt induced hot corrosion of nickel based super alloys.
- Semi-solid heat treatment of Al alloys.
- Design and development of nanocomposites for advanced electronic devices
- Synthesis and characterization of metallic glass matrix composite
- Structure-property correlation on ZrB₂ based ultra high temperature ceramic composite
- Mechanism of microstructural modification and subsequent improvement in properties by semi-solid heat treatment of some non-ferrous alloys.
- Thermo-mechanical processing of microalloyed steels

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 assisted low-cost solar cells.
- Graphene based supercapacitors.
- Green synthesis of nanoparticles.
- Investigation on Geochemical and Geophysical aspect of Geothermal Exploration at Bakreswar-Tantloi Geothermal Area.
- Investigations on multi-parametric and multi-station based geochemical precursors for Earthquakes.
- Low temperature characterization of nano-composites, conducting polymers and disordered alloys.
- Mathematical modelling of hydro-geothermal data to study the nonlinearity of geothermal reservoir.
- 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.

- Nonlinear optical techniques for characterization of nanomaterials.
- 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.
- Synchronous communication systems, studies on multiphase oscillators, nonlinear dynamics, Chaos and Cryptography.
- Synthesis and Characterization and Study of Optical and Nonlinear Optical Properties of Semiconducting and Metallic Nanoparticles and Quantum Dots.
- Synthesis and characterization of nanostructured materials.
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites.
- Synthesis of metal nanoparticles by laser ablation and study of optical properties.
- Synthesis of various nanostructures for photocatalysis applications.

Annexure–11.4(h) Ph.D. degree awarded till 2014-15

Name of the Department	Investigator	Supervisor(s)
Biotechnology	H. R. Bairagya	Mukhopadhyay BP
Biotechnology	B. Bhunia	Dey A
Biotechnology	B. Basak	Dey A
Biotechnology	S. Chakraborty	Dey A
Biotechnology	G. Goswami	Dutta D& Chaudhuri S
Biotechnology	N. Sarkar	Aikat K
Biotechnology	R. Das	Kazy SK
Biotechnology	A. Ganguly	Dey A Chatterjee PK (CMERI Durgapur)
Biotechnology	N. Gupta	Chattopadhyay S
Biotechnology	P. Kumar	Dutta D& Chaudhuri S
Biotechnology	J P. Maurya	Chattopadhyay S
Biotechnology	V. Singh	Chattopadhyay S and Nandi A (SLS, JNU)
Chemical Engineering	S. Mukherjee	Sinha AP
Chemical Engineering	S.K. Dutta	Sinha AP
Chemical Engineering	S.K. Lahiri	K.C. Ghanta
Chemical Engineering	M.K. Karmakar	Halder S. Dutta AB (CMERI)
Chemical Engineering	Sen M.	Pal P
Chemical Engineering	A.K. Sadhukhan	Gupta P Saha RK (IIT Kharagpur)
Chemical Engineering	A.K. Manna	Pal P
Chemical Engineering	J. Sikder	Pal P & Sarker JP
Chemical Engineering	R. Kumar	Pal P
Chemical Engineering	R.N. Krishnaraj	Pal P, Chandran S & Berchmans S (CSIR-CECRI)
Chemical Engineering	P. Dey	Pal P
Chemical Engineering	Saswata G.	Mandal T
Chemical Engineering	A. Bhattacharyya	Dutta S Basu S, HIT Kolkata
Chemical Engineering	D. Mukhopadhyay	Sarker JP Dutta S
Chemical Engineering	K. Arnab	Paruya S
Chemical Engineering	G. Nababithi G.	Paruya S
Chemistry	M. Banerjee	Konar RS
Chemistry	S. Chatterjee	Konar RS
Chemistry	B. R. Guha	Banerjee SN
Chemistry	S. Basu	Banerjee SN
Chemistry	U. Satpathi	Konar RS

Name of the Department	Investigator	Supervisor(s)
Chemistry	P. K. Banerjee	Banerjee SN
Chemistry	S. Saha	Kurmaiah N
Chemistry	V. K. Soi	Kurmaiah N
Chemistry	S. Sarkar	Konar RS
Chemistry	M. S. Adhikary	Konar RS
Chemistry	S. Guchait	Konar RS
Chemistry	R. Roy	Nandi MM
Chemistry	P. Debnath	Nandi MM
Chemistry	S. Mishra	Banerjee SN
Chemistry	J. Chowdhuri	Nandi MM
Chemistry	S. Tarot	Nandi MM
Chemistry	T. K. Chatterjee	Bhaumik GC
Chemistry	A. K. Sarkar	Kurmaiah N
Chemistry	N. Dey	Konar RS
Chemistry	S. C. Mitra	Konar RS
Chemistry	S.C. Moi	Ghosh AK
Chemistry	T. Kundu	Ghosh AK & Chowdhury P
Chemistry	B. Chakrabarti	Mukhopadhyay BP
Chemistry	T. K.Nandi	Mukhopadhyay BP
Chemistry	S. Roy	Patra AK
Chemistry	S. Samui	Ghosh AK & Chowdhury P
Chemistry	B. Ghosh	Mukhopadhyay BP
Chemistry	Ranjana	Nandi MM & Maji M
Chemistry	G. K.Ghosh	Moi SC & Patra AK
Chemistry	S.Mahata	Nandi MM & B. N. Mondal (CMERI)
Chemistry	H.S.Borah	Panja SS Choudhury S
Chemistry	S.Roy	Patra AK
Chemistry	J.Shah	Das SB Saha R.N. Raut NB. (C.C.E., Oman)
Civil Engineering	M. N. Rao	Basole MM
Civil Engineering	P. K. Das	Basole MM
Civil Engineering	N. M. Basu	Rao MN
Civil Engineering	S. N. Srimani	Das PK
Civil Engineering	S. Debbarma	Saha S
Computer Science & Engineering	P. Bhattacharya	Sanyal G
Computer Science & Engineering	T. S. Sinha	Sanyal G
Computer Science & Engineering	A. Sarkar	Bhattacharya S
Computer Science & Engineering	B. Chakraborty.	Ghosh D
Computer Science & Engineering	S. Changder	Ghosh D
Computer Science & Engineering	J.Bhattacharya	Sanyal G
Computer Science & Engineering	R. K. Samanta	Sanyal G
Computer Science & Engineering	P. Choudhury	Nandi S
Electrical Engineering	P. K. Sen	Roy AM
Electrical Engineering	(Mrs.) J. Majumder	Roy Choudhury SP
Electrical Engineering	Ranjit Roy	Ghoshal SP
Electrical Engineering	V. Mukherjee	Ghoshal SP
Electrical Engineering	S. Karmakar	Roy NK & Kumbhakar P
Electrical Engineering	R. Bhaduri	Banerjee S
Electrical Engineering	P.K. Roy	Ghoshal SP & Thakur SS
Electrical Engineering	P. Biswas	Banerjee S.
Electrical Engineering	A. Chatterjee	Ghoshal SP & Mukherjee V.
Electrical Engineering	S. Mallik	Thakur SS, Acharjee P

Name of the Department	Investigator	Supervisor(s)
		Ghoshal SP
Electrical Engineering	M.K. Sarkar	Banerjee S, Ghoshal SP & Saha TK
Electrical Engineering	P.K. Pany	Ghoshal SP
Electrical Engineering	S.K. Saha	Kar R, Ghoshal SP & Mandal D
Electrical Engineering	A. Chatterjee	Mukherjee V, Ghoshal SP
Electronics & Communication Engineering	P. Paul	Bhattacharjee AK & Datta S
Electronics & Communication Engineering	K. Adhvaryu	Bhattacharjee AK Chanda C (BESU) Maji BB
Electronics & Communication Engineering	S. K. Ghoshal	Bhattacharjee AK Ghatak R
Electronics & Communication Engineering	R. Kar	Mal AK Bhattacharjee AK
Electronics & Communication Engineering	D. Mandal	S. P. Ghoshal Bhattacharjee AK
Electronics & Communication Engineering	N. N. Pathak	Mahanti GK
Electronics & Communication Engineering	B. Basu	Mahanti GK
Electronics & Communication Engineering	S. D. Roy	Kundu S
Electronics & Communication Engineering	J. Roychowdhury	Bhattacharjee AK
Electronics & Communication Engineering	A. Nandi	Kundu S
Electronics & Communication Engineering	M.S. Shaik	Bhattacharjee AK & Vallavaraj A.
Electronics & Communication Engineering	N.B. Singh	De AK& Sarkar SK
Electronics & Communication Engineering	U. Datta	Kundu S
Electronics & Communication Engineering	R.Muralidharan	Mahanti GK
Electronics & Communication Engineering	S. Nallagonda	Kundu S & Dhar Roy S
Electronics & Communication Engineering	S. Singha	Mahanti GK
Electronics & Communication Engineering	J.V. Vadakkeprambil	Mahanti GK & Chandran S
Electronics & Communication Engineering	S.K.Mandal	Mahanti GK & Ghatak R
Electronics & Communication Engineering	U. Chakraborty	Bhattacharjee AK
Electronics & Communication Engineering	A. Chatterjee	Mahanti GK
Electronics & Communication Engineering	V. Maheshwari	Bhattacharjee AK
Electronics & Communication Engineering	A. Biswas	Mandal D, Bandhopadhyay AK, (Ex-Professor and Principal, ECE Dept, Govt. College of Engg.) & Bhattacharjee AK
Electronics & Communication Engineering	S. Choudhury	Mal AK
Geology	T. K. Saha	Bhattacharjee SB & Ghosh SN (ChE)
Geology	A. K. Batabyal	Bhattacharjee SB

Name of the Department	Investigator	Supervisor(s)
		Mukherjee A
Geology	K. Adhikari	Gangopadhyay A Choudhury P
Geology	Dibyendu Banerjee	Gangopadhyay A Bhattacharyya S Chakraborty SK
Geology	S. Karmakar	Gangopadhyay A & Brahmachari K
Geology	M. Mahapatra	Gangopadhyay A & Kayal JR
Geology	B. Chakraborty	Gangopadhyay A & Adhikari K
Geology	K. Sadhu	Adhikari K & Gangopadhyay A
Humanities	R. Chaudhury	Sengupta PP & Sikdar SC
Humanities	S. K. Seth	Sengupta PP
Humanities	A. Bhattacharyya	Sengupta PP
Humanities	P. Mitra	Sengupta PP
Humanities	R. Roy	Sengupta PP
Humanities	C. Samajdar	Sengupta PP
Humanities	N. Sarkar	Sengupta PP
Humanities	A. Bhattacharyya	Sengupta PP
Humanities	T. Biswas	Sengupta PP
Humanities	A. De	Chakrabarti BN & Bandyopadhyay G
Humanities	A. Dutta	Sengupta PP
Humanities	S. Ghosh	Sengupta PP
Humanities	S. Das	Banerjee J
Humanities	S. Sengupta	Chakrabarti BN
Humanities	S. Bhattacharyya	Sengupta PP
Humanities	T. Chakraborty	Banerjee J
Humanities	S. Das	Banerjee J
Humanities	D. Dey	Sengupta PP
Humanities	A. Mukherjee	Modak A
Management Studies	Chatterjee T.	Roy M
Mathematics	E. Tarafder	Chowdhury AK
Mathematics	R. Sircar	Mitra DN
Mathematics	H. Chattopadhyay	Roy BK
Mathematics	J. Sanyal	Roy Chowdhury AN
Mathematics	D. Chatteraj	Bose SK
Mathematics	T. Chattopadhyay	Bose SK
Mathematics	T. Das	Sircar R
Mathematics	S. S. Halder	Bose SK
Mathematics	P. Chakraborty	Roy Chowdhury AN
Mathematics	Sambhu Nath Dey	Ghosh D & Sikder SC
Mathematics	S. N. Dey	Ghosh D (CSE) & Sikder SC
Mathematics	R. Bhattacharyya	Kar S & D Dutta Majumder
Mathematics	D. Das	Kar S & A. Roy
Mathematics	S. Mukherjee	Basu K
Mathematics	A. Das	Basu K
Mathematics	P. Karmakar	Kar S
Mathematics	P. Nandi	Kar S & Gorain G.
Mathematics	G. Panigrahi	K. Basu
Mathematics	A. Rana	Pal A, & Pal M
Mathematics	P. Narayanan	Pal A & Rizwan
Mathematics	P. Kundu	Kar S & Maiti M
Mathematics	A. Saha	Kar S & Maiti M
Mathematics	S. Hazari	Kar S, Dey JK & Maiti M

Name of the Department	Investigator	Supervisor(s)
Mathematics	P. Karmakar	Sarkar (Mondal) S & Majumdar D
Mathematics	G. Panigrahi	Basu K
Mechanical Engineering	S. N. Mukherjee	Basu SK
Mechanical Engineering	D. K. Pal	Basu SK
Mechanical Engineering	S. N. Sengupta	Basu SK
Mechanical Engineering	G. Mitra	Basu SK
Mechanical Engineering	G. S. Gill	. Dasgupta NC & Bhaduri D
Mechanical Engineering	K. Chatterjee	Hui NB Chatterjee D. (CMERI)
Mechanical Engineering	P. Basu	. N. C. Dasgupta & D. Bhaduri
Mechanical Engineering	A. Majumdar	Basu SK
Mechanical Engineering	G. S. Patki	Basu SK
Mechanical Engineering	P. K. Sinha	Bhaduri D
Mechanical Engineering	S. C. Nidhi	Basu SK
Mechanical Engineering	J. Basu	Basu SK
Mechanical Engineering	B. Bhaduri	Basu SK
Mechanical Engineering	S. P. Das	P. B. Choulia
Mechanical Engineering	M. S. Mukhopadhyay	Pal DK
Mechanical Engineering	M. R. Patkar	Pal DK & S Basu SK
Mechanical Engineering	S. Chakraborty	Pal DK
Mechanical Engineering	M. A. Venkatesh	Pal DK
Mechanical Engineering	N. P. Mukherjee	Pal DK
Mechanical Engineering	S. Mukherjee	Sengurpta SN& Majumder MC
Mechanical Engineering	B. Gopla	Ghosh S Mondal BN (CMERI)
Mechanical Engineering	C. Chattoraj	Majumder MC
Mechanical Engineering	A. G. Mathew	Majumder MC Ramachandran KP (CCE, Oman)
Mechanical Engineering	G. K. Vijayaraghvan	Majumder MC Ramachandran KP (CCE, Oman)
Mechanical Engineering	S. Vishnupriyan	Ramachandran KP (CCE, Oman) Majumder MC
Mechanical Engineering	P. Debroy	Ghosh S
Mechanical Engineering	A. Maity	Ghosh S, Majumder S (CMERI)
Mechanical Engineering	R.V. Murali	Puri AB & Khalid
Mechanical Engineering	S. Gangopadhyay	Majumder MC & De NR
Mechanical Engineering	D. N. Ray	Mukherjee S. & S. Mazumder
Mechanical Engineering	B. Bhattacharya	Banerjee N & Sarkar H (WBPCB)
Metallurgical & Materials Engineering	A. C. Ganguli	Dasgupta SC Chakraborty AK
Metallurgical & Materials Engineering	S. Banerjee	Bhaduri D
Metallurgical & Materials Engineering	B. Deo	Sarkar S
Metallurgical & Materials Engineering	A. Basu	Sengupta SC & Jana S
Metallurgical & Materials Engineering	S. K. Chattopadhyay	Chatterjee SK & Sengupta SP
Metallurgical & Materials Engineering	K. Lal	Chattopadhyay SK & Meikap AK (PH)
Metallurgical & Materials Engineering	S. Mukherjee	Mondal DK
Metallurgical & Materials Engineering	D. Ghosh	Mitra SK
Metallurgical & Materials Engineering	R. K. Dasgupta	Mondal DK & Ganguli AC
Metallurgical & Materials Engineering	A. Saha	Mondal D K. & Maity J
Metallurgical & Materials Engineering	B. K. Show	Maity J & Mondal DK
Metallurgical & Materials Engineering	M. K. Mondal	Maity J & Biswas K

Name of the Department	Investigator	Supervisor(s) (IIT Kharagpur)
Metallurgical & Materials Engineering	R. Karunanithi	Bera S & Ghosh KS
Physics	N. Choudhury	Sinha MS
Physics	A. K. Das	Sinha MS
Physics	B. C. Nandi	Sinha MS
Physics	P. S. Basu	Sinha MS
Physics	G. S. Roy	Sinha MS
Physics	(Mrs.) R. Sen	Chatterjee SK
Physics	D. Biswas	Meikap AK & Chattopadhyay SK
Physics	S. Sahoo	Maharana L & Meikap AK
Physics	A. Sarkar	Meikap AK & Chatterjee SK
Physics	J. Ghosh	Chatterjee SK
Physics	P. Kr. Singha	Mitra AK
Physics	M. Chattopadhyay	Kumbhakar P
Physics	S. Ghatak	Meikap AK
Physics	K. Gupta	Meikap AK & P. C. Jana (V.U.)
Physics	R. Sarkar	Kumbhakar P & Mitra AK
Physics	K. Talukdar	Mitra AK
Physics	G. Chakraborty	Meikap AK
Physics	P. Ghosh	Meikap AK
Physics	S.M.Hossain	Basu S & Pal M
Physics	R.Paul	Mitra AK
Physics	R.K.Agarwalla	Chakraborty AK & Mitra AK
Physics	S.Banerjee	Sahoo S & Sahoo B (TDB College, Ranigang)
Physics	C.K. Das	Sahoo S & Maharana L
Physics	H.S. Desarkar	Kumbhakar P & Mitra AK
Physics	A.Chatterjee	Roy NK and Kumbhakar P
Physics	A.Ganguly	Mondal A., Yadav RK
Physics	A. Kole	Kumbhakar P
Physics	S.K.Sahoo	Sahoo S, Sahoo BK (NIT Raipur)

Annexure - 11.4(h) ii Proposed Plan for Research

Department of Biotechnology

- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Biodegradation of pesticides
- Bioenergy
- Biofuels
- Bionanotechnology
- Bioprospecting microbial diversity for biomolecules
- Bioremediation
- Cancer Biology
- Developmental Biology and Signal Transduction
- Environmental Microbiology and Biotechnology
- Extraction and application of natural dye
- Biopigments
- Microbiology of arsenic contaminated groundwater
- Molecular mechanism of inflammation
- Molecular mechanism of Inflammation
- Molecular Plant Pathology
- Parasite immunology and cell signalling
- Parasite metagenomics
- Petroleum microbiology
- Plant Biotechnology

- Screening of Novel Enzymes

Department of Chemical Engineering

- Biochemical Utilisation of Petroleum Wax (Biochemical Conversion / SCP Production)
- Catalytic membrane reactor
- Clean Technology for Chemical Processes
- Circulating Fluidized Bed Combustion & Gasification
- Co-pyrolysis, Combustion and Gasification
- Design and Analysis of Semi Fluidized Bed Bioreactors
- Design and Analysis of Fluidized / Semifluidized Bed Bioreactors for Biodiesel Synthesis
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal- Oil Suspension)
- Diesel Particulate Filter-A CFD Modelling
- Dry beneficiation of coal
- Fluidized Bed Combustion
- Gasification of coal and biomass
- Kinetic Studies on Biochemical Production of Phosphatic Biofertiliser from Rock Phosphate Ore
- Methanogenesis of low grade Indian coal
- Modelling of Diesel Particulate Filter (DPF)
- 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
- Production of plastic to petrol
- 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 Immobilised Cell / Enzyme Nanoparticles
- Surface Modification of Natural Adsorbents and its use for remediation of watercourse contaminated with crude oil and weathered oil by inverse fluidized bed
- Treatment of Industrial Wastewater

Department of Chemistry

- Analytical Chemistry
- Chemical sensing of metal ions, anions and some pollutants.
- Cryobiology
- Drug design
- Environmental Chemistry
- Food Chemistry
- Lipid Chemistry
- Organometallic chemistry
- Pilot Scale study of Physico-Chemical and Biological Treatment of High Strength Wastewater
- Polymer chemistry
- Polysaccharide Chemistry
- Smart sensor
- Software based kinetic and mechanistic study and speciation
- Synthesis of Nanomaterials for Environmental Application

Department of Civil Engineering

- Analysis and design of offshore pipelines
- Bioremediation and Nanotechnology
- Contaminant migration through soil
- Development of Decision Support System for water resource management and
- Development of Smart Concrete Structures.
- Engineering Limnology

- Experimental mechanics of concrete structures, Biodeposition on concrete
- Experimental set up for formation of river bed form and erosion around an island flood mitigation of river Kosi system lying in India and Nepal
- Impact of Climate change on water resources in a natural stream
- Mix design of pumpable concrete
- Removal of heavy toxic metal from ground water using nanotechnology.
- Rural water management
- Setting up of a center of low-cost housing facilities.
- Solid waste management
- Structural reliability
- Wind energy Studies

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.
- Energy Aware Navigation System
- Unmanned Aerial Vehicle as a communication Data Mule for Post Disaster Management
- Bio Landmark Identification
- 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 KERNEL.
- Load Balancing in Cellular Networks
- Reducing handoff delays
- Study and development of Trust Computing in Cloud Computing Environment.

Department of Computer Science and Engineering

- Affective Computing
- Artificial Intelligence
- Biometrics Systems
- CAD for VLSI
- Fuzzy Decision making
- Fuzzy Graph
- Machine Learning
- Mobile Computing
- Optical Networks
- Optimization and Genetic Algorithm
- Pattern Recognition
- Software Engineering
- Swarm Intelligence
- Testing and Verification of Circuits

Department of Earth and Environmental Studies

- Application of Remote Sensing in Petroleum exploration
- Designing of low cost high temperature air filtration technique
- Environmental impact on coal mining areas
- Groundwater availability and its management
- Groundwater contaminant transport and its removal
- Groundwater modelling in areas of Open Cast mining
- Impact of industrial pollution in the environment
- Impact of MSW landfill on groundwater
- Impact of CBM co-produced water on groundwater system
- Techniques of slope stability in Himalayan terrain

Department of Electrical Engineering

- AGC with renewable energy systems, FACTS and PSS in restructured power systems

- 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
- Investigation of Haematological disorders from blood cells using soft computing techniques
- Modelling of breakdown voltages using soft computing techniques
- On-line Monitoring of Partial Discharge in Transformer Oil
- Optimal Power Flow Studies
- Optimization in DSP Filter Designs
- Power System Stabilizer
- Price Forecasting
- Quantitative Feedback Control for Non-minimum Phase time Delayed systems
- Robust Design Power System Stabilizer for multimachine System
- Side Lobe Reduction in Antenna Arrays
- Small Signal Stability Analysis in Power Systems
- Synthesis and Characterization of Lanthanum Doped Barium Titanate Zirconate
- Unification of field forces and to explore some of the unanswered phenomena in nature and science

Department of Electronics and Communication Engineering

- Antenna
- Antenna and Microwave Circuit components
- Antenna Array Synthesis using Evolutionary Algorithms
- Digital Signal processing
- Energy Harvesting
- MEMS
- Power Line Communication
- RF and Microwave Engineering
- Underwater Acoustic Communication
- VLSI
- Wireless Communication
- Wireless relays and space-time coding

Department of Humanities and Social Sciences

- Literary Theory and Criticism
- Poems and Plays of Shakespeare
- Cinema
- Religion
- Indian English Literature

Department of Information Technology

- Agent based systems
- Coercion resistant E-Auction mechanism design
- Deniable and hierarchical crypto-systems
- Distributed area coverage by a swarm of mobile robots
- 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
- Semantic web and its applications
- Soft Computing Techniques for Bioinformatics systems
- Swarm robotics
- Synthesis and Testing of Digital Microfluidic Biochips
- VLSI testing in Nano-scale Era

Department of Management Studies

- Human Resource Management
- Education Management
- Green Management
- Knowledge Management
- Marketing Management

Department of Mathematics

- Bio-mathematics
- Coding Theory
- Computational Graph Theory
- Cryptography
- Fixed Point Theory
- Fuzzy Mathematics
- Geophysics
- Hypergraph
- Image processing
- Information Theory
- Mathematical Modelling
- Operations Research
- Optimization of dynamics system,
- Population Dynamics
- Portfolio Optimization
- RFID Security
- Statistical Analysis
- Supply-chain Management
- Theoretical & Computational Fluid Dynamics
- Uncertainty Theory

Department of Mechanical Engineering

- Complete fault diagnosis, detection and isolation of Rolling stand through electrical motor current signature analysis
- Constructal law-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
- Entropy Generation Minimization based thermodynamic optimization of systems
- Experimental Analysis of Composite Structures
- Investigation of Heat Transfer and Fluid Flow Phenomenon of Artificially Roughened Duct Using Liquid Crystal Thermography System
- Law of Motive force based thermodynamic optimization of systems
- Machine dynamics
- Micromachining
- Nonlinear Control

Department of Metallurgical & Materials Engineering

- Characterisation and pre-reduction of electric arc furnace dust.
- Corrosion fatigue/environmental assisted cracking of aluminium alloys and stainless steels and their weldments.
- 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.
- Modification of Al-Si alloy microstructure by semisolid heat treatment.
- Salt induced hot corrosion of nickel based super alloys.
- Tribological study of different Al-Si alloys.

- High temperature oxidation behaviour of ultrahigh temperature ceramic composites.

Department of Physics

- Development and characterization of nanomaterials using laser
Development of a prototype Geothermal power plant and helium plant at Bakreswar-Tantloi Geothermal area, West Bengal-Jharkhand
- Functionalization of Carbon Nanotubes, Preparation of Hybrid Structures with Carbon Nanotubes, Characterization and Study of Optical and Electrical Properties.
- Glancing angle deposition technique for nanowire fabrication and application to optical sensor
- 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
- Synchronous communication systems, studies on multiphase oscillators, nonlinear dynamics, Chaos and Cryptography.
- Synthesis and Characterization and Study of Optical and Nonlinear Optical Properties of Semiconducting and Metallic Nanoparticles and Quantum Dots
- Synthesis and characterization of nanostructured materials
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites
- Synthesis of Metal Nanoparticles by Laser Ablation and Study of Optical Properties
- To develop graphene based applications from solar cell to supercapacitor to sensors

Annexure–11.4(i) Testing & Consultancy services rendered during 2014-15

Department	Title of the Project	Amount (Total in Rs.)
Samanta A. K., Civil Engg	Vetting of design and drawing for G+3 building with hollow Steel Section for BSF camp at Mathura, UP	65,000.00
Samanta A. K., Civil Engg	Compressive strength of casted raft through Core cutting methodology for M/s Graphite India Ltd. Durgapur	40,000.00
Datta, A.K., Topdar. P., (Civil Engg.), Patari, A. (Mech. Engg)	Proof checking of design and drawing of proposed electronic in-motion weigh bridge	20,000.00
Testing and Consultancy cell, Civil Department	Various testing and consultancy activities	4,63,450.00
Metallurgical & Materials Engineering	Testing and Consultancy	1,98,500.00
Earth and Environmental Studies	Evaluation of Environmental Sustainability Activities; Ref no. ECL/ENV/SD/14/442Project Advisory Service for Solid Waste Management within ADPA region; Ref no. ADDA/DGP/PC-408/2014-15/2387	17,948.00 7,86,520.00
Chemistry	Water Testing	3,000.00

11.5(a) Number of Faculty in position

Professor	Assoc Prof.	Asst. Prof	Asstt. Prof (Contract.)	Trainee Teacher
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	In position				
Biotechnology	02	04	04	01	
				--	
Chemical Engg	08	02	03	01	
Chemistry	01	05	03	01	
Civil Engineering	07	04	06	-	01
Computer Appln.	Nil	Nil	05	02	
Computer Science & Engineering	01	05	03	03	
Computer Centre	Nil	Nil	02		
Electrical Engg	06	04	05	01	01
Electronics & Communication Engineering	05	03	07	-	
Earth & Environmental Science	01	01	Nil	01	
Humanities & Social Science	02	Nil	03	-	
Information Technology	Nil	02	08	-	
Management Studies	01	02	05	01	
Mathematics	01	02	06	-	
Mechanical Engineering	06	08	09	01	02
Metallurgical & Materials Engg.	03	05	05	02	
Physics	02	01	04	01	
T.P.S.W	00	-	-	-	
Total	46	48	78	15	04

Annexure-11.5(b) List of Faculty

Director	Kumar Tarkeshwar, PhD
Dean, Administration	Gangopadhyay Aniruddha, PhD
Dean, Academic	Mondal Dipak Kumar, PhD
Dean, Planning & Development	Sarkar Jyoti Prokash, PhD
Dean , Faculty Welfare	Sanyal Goutam, PhD
Dean, Students Welfare	Bhattacharya Anup Kumar, PhD
Dean, Research & Consultancy	Gupta Partha Pratim, PhD

Department of Biotechnology

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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Dasguptamanda I Dalia, Ph.D	Associate Professor	Tissue culture technology,	dalia.dasgupta@bt.nitdgp.ac.in dasguptadalia@yahoo.com

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Department Of Chemical Engineering

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Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Environmental Energy			
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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	Professor	Modelling and Simulation of Pyrolysis, Combustion and Gasification of Coal and Biomass	anupkumar.sadhukhan@che.nitdgp.ac.in t_sadhu@yahoo.com
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Sikder Jaya	Assistant Professor	Membrane Separation, Fermentation Technology, Bioprocess Enginneering	jaya.sikder@che.nitdgp.ac.in umunique1@gmail.com

Department Of Chemistry

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Panja Sujit Sankar, PhD	Assistant Professor	Fluorescence Spectroscopy	sujit.panja@ch.nitdgp.ac.in Sujit.panja@gmail.com
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Department of Civil Engineering

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Patra Pathik	Trainee Teacher	Structure	

Department of Computer Applications

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Saha Sujoy	Assistant Professor (Contractual)	Mobile Communication, Network Security, Delay Tolerant Network, Microcontroller	sujoy.ju@gmail.com , Sujoy.saha@ca.nitdgp.ac.in

Computer Centre

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Department of Computer Science and Engineering

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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Dalui Mamata	Assistant Professor (Contractual)	Distributed Computing, Multiprocessor and Multicore Architecture, VLSI Design and Test	mamata.06@gmail.com mamata_dalui@rediffmail.com
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Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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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 Earth and Environmental Studies

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Adhikari Kalyan, PhD	Associate Professor	Groundwater, Environment	k_adh@yahoo.com
Gangopadhyay Aniruddha, PhD	Professor	Environment, Structural Geology	anijhth@yahoo.com
Mondal Sandip, PhD	Assistant Professor	Environment, Groundwater Contaminant Transport and its Removal, Pollutants removal from water and wastewater	sa.mondal@gmail.com

Department of Electrical Engineering

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Department of Electronics & Communication Engineering

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Kar Rajib, PhD	Assistant Professor	Interconnect modelling	rajib.kar@ece.nitdgp.ac.in rajibkarece@gmail.com
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Mahanti Gautam	Professor	Soft Computing,	gautamkumar.mahanti@ece.nitdgp.ac.in

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Sadhukhan Tapas	Associate Professor	Wireless Communication	tapas.sadhukhan@ece.nitdgp.ac.in tapasnitd@gmail.com

Department of Humanities and Social Sciences

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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Department of Information Technology

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Department Of Management Studies

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Bandyopadhyay Gautam, PhD	Associate Professor	Operations Research and Quantitative Techniques	goutam.banerjee@dms.nitdgp.ac.in math_gb@yahoo.co.in
Banerjee Neelotpaul	Assistant Professor	Celebrity endorsements, use of online & social media in marketing, & consumer behaviour in the context of sociological aspects.	neelotpaul.banerjee@dms.nitdgp.ac.in neelotpaul@gmail.com
De Anupam	Assistant Professor	Advance Accounting, Financial Management, Project Management, Cost & Management Accounting, Corporate Taxation, Internal Audit	anupam.de@dms.nitdgp.ac.in dgp_anupamca@yahoo.com
Dutta Avijan, PhD	Associate Professor	Financial Management, Project Appraisal, Security Analysis and Portfolio Management.	avijan.dutta@dms.nitdgp.ac.in avijand@yahoo.com
Ghosh Amlan, PhD	Assistant Professor	Banking, Insurance and Pension sector along with MFIs and Post Offices.	amlan.ghosh@dms.nitdgp.ac.in amlanpost@gmail.com
Mandal Kaushik, PhD	Assistant Professor	Brand Management, Sales & Distribution Management, Business Environment & Tourism	kaushik.mandal@dms.nitdgp.ac.in kaushikmandal.nit@gmail.com
Pal Durba, PhD	Assistant Professor	OCB, Organizational Values, Psychological Capital, Employee Engagement, Organizational Spirituality, Workplace Adaptability	durba.pal@dms.nitdgp.ac.in dr.durba.pal@gmail.com
Roy Mousumi, PhD	Professor & HOD	Common property resource management, Knowledge management, Green Accounting and environment sustainability	mousumi.roy@dms.nitdgp.ac.in roydrmousumi@yahoo.co.in
Sarkar Subhadip	Assistant Professor	Operations Research, Supply Chain management, Operations Management	subhadip.sarkar@dms.nitdgp.ac.in rajsarkar77@yahoo.co.in

Department of Mathematics

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Bagchi Satya, Ph D	Assistant Professor	Algebra, Cryptography. Coding Theory, Design Theory	satya.bagchi@maths.nitdgp.ac.in satya5050@gmail.com
Basu Kajla, PhD	Professor	Parallel Algorithms, Operations Research, Statistical Analysis, Fuzzy Mathematics	kajla.basu@maths.nitdgp.ac.in kajla.basu@gmail.com
Dey Lakshmi Kanta, PhD	Assistant Professor	Fixed Point Theory, Proximity Theory, Real Analysis, Topology, Coding and Design Theory	lakshmikanta.dey@maths.nitdgp.ac.in lakshmikdey@yahoo.co.in
Kar Samarjit, PhD	Associate Professor	Fuzzy Mathematics, Optimization, Portfolio Management	samarjit.kar@maths.nitdgp.ac.in kar_s_k@yahoo.com
Maitra Sarit, PhD	Assistant Professor	Nonlinear waves, Stochastic dynamics	sarit2010.nt@gmail.com
Sarkar (Mondal) Seema, PhD	Associate Professor	Operations Research, Statistical Analysis, Portfolio optimization, Geophysics.	seemasarkarmondal@yahoo.co.in
Pal Anita, PhD	Assistant Professor	Computational Graph Theory, Fuzzy Mathematics	anita.pal@maths.nitdgp.ac.in anita.buie@gmail.com
Pal Pinaki, PhD	Assistant Professor	Nonlinear Dynamics, Instabilities in Rayleigh Benard Envection, Complex Dynamical Systems	pinaki.math@gmail.com
Panigrahi Gautam PhD	Assistant Professor	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	Professor	Vehicle Dynamics, Mechanical System Modelling and Simulation	nilotpal.banerjee@me.nitdgp.ac.in nil_rec@yahoo.com
Barman Rabindra Nath PhD	Assistant Professor	Fluid Mechanics, Hydraulics, CFD, Micro-Fluidics	rn.barman@me.nitdgp.ac.in rahul.barman@yahoo.co.in
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
Halder Biswajit, PhD	Professor	Hydraulics & Hydraulic Machines, Machine Dynamics, Rotordynamics, Fluid mechanics	biswajit.halder@me.nitdgp.ac.in jeetarkaani@yahoo.co.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Hui Nirmal Baran, PhD	Associate 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, PhD	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	Aerothermodynamics, Constructal law, Finite-time Thermodynamics (Entropy Generation Minimization), Heat Transfer, Law of Motive Force	achintyakumar.pramanick@me.nitdgp.ac.in akpramanick@yahoo.com
Pramanik Shantanu, PhD	Assistant Professor	Fluid Mechanics, Heat Transfer, CFD	shantanu.pramanick@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, PhD	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

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

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Chakraborty Rajib	Associate Professor	Agglomeration, Direct Reduction	profrajivc@mms.nitdgp.ac.in rajiby2k1@yahoo.com
Ganguly Amit	Professor	Iron & Steel Technologies & Technology management with Business - Driven R&D	ganguly_amit11@hotmail.com
Ghosh Karuna Sindhu, PhD	Associate Professor	Corrosion, Physical Metallurgy, Welding	karunasindhu.ghosh@mms.nitdgp.ac.in ksgghosh2001@yahoo.co.uk
Ghosh Madan Mohan	Assistant Professor	Deformation, Heat Treatment, Materials Modeling	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	profskm@mms.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	profnr@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
Mandal Durbadal	Assistant Professor	Solidification, Alloy Development, MMCs	durbadal73@yahoo.co.in
Maji Barnali	Assistant Professor	Foundry Technology	barnali.maji@mme.nitdgp.ac.in barnali.maji04@gmail.com

Department of Physics

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Basu Soumen, PhD	Assistant Professor	Nanomaterials	soumen.basu@phy.nitdgp.ac.in
Chakraborty Amit, PhD	Associate Professor	graphene & carbon nanotube based applications in solar cell, supercapacitor, sensors and polymer nanocomposites	amit.chakraborty@phy.nitdgp.ac.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Chaudhuri Hirok, Ph D	Assistant Professor	(i) Exploration of Large Scale Extraction of Helium From Geothermal Areas And Petroleum Deposits (ii) Exploration of Geothermal Power At Bakreswar-Tantloi Geothermal Area (iii) Monitoring of Earthquake Precursors (Geothermal & Geochemical Techniques) (iv) Nonlinear Analysis of Geochemical And Geophysical Data	hirok.chaudhuri@phy.nitdgp.ac.in chaudhuri_hirok@yahoo.co.in
Kumbhakar Pathik, PhD	Professor & Head	Nanophotonics, Nonlinear Optics, PD Sensor, Gas Sensor	pathik.kumbhakar@phy.nitdgp.ac.in p.kumbhakar@gmail.com
Meikap Ajit Kumar, PhD	Professor	Low Temperature Characterisation, Thin-film Technology, Conducting polymers, Nanocomposites	ajit.meikap@phy.nitdgp.ac.in ak_meikap@yahoo.com
Mondal Aniruddha Ph D	Assistant Professor (on contract)	Optoelectronics And Nanotechnology, Glancing Angle Deposition Technique, Optical Detector, Sensors	aniruddha.mondal@phy.nitdgp.ac.in, a niruddhamo@gmail.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

Department of Training Placement and Students' Welfare

Sl. No	Name of the post	Name
01	Professor	Nil

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

Sl.No	Name	Department	Designation	Date of Joining
1	Barman Rabindranath, PhD	ME	Asstt.Prof. (Cont)	01.12.2014
2	Choudhuri Hirok, PhD	Physics	Asstt.Prof.	23.06.2014
3	Das Bimal, PhD	Chemical	Asstt.Prof. (Cont)	01.08.2014
4	Ghosh Amlan, PhD	DMS	Asstt.Prof. (Cont)	01.08.2014
5	Halder Suman, PhD	Electrical	Asstt.Prof. (Cont)	01.08.2014
6	Kisku Dakshina Ranjan, PhD	CSE	Asstt.Prof. (Cont)	12.08.2014
7	Mahata Nibedita	Biotech	Asstt.Prof. (Cont)	11.07.2014
8	Maji Barnali, PhD	MME	Asstt.Prof. (Cont)	05.08.2014
9	Mondal Durbadal, PhD	MME	Asstt.Prof.	03.09.2014
10	Mondal Sandip, PhD	EES	Asstt.Prof. (Cont)	24.07.2014
11	Mondal Aniruddha, PhD	Physics	Asstt.Prof. (Cont)	10.10.2014
12	Saha Tanmoy Kr, PhD	Chemistry	Asstt.Prof. (Cont)	28.07.2014

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

Sl. No.	Name	Department	Designation	Date of retirement/Resignation
1	Nandi M.M	Chemistry	Professor	31.08.2014
2	Sengupta Amitava	ME	Associate Prof	30.09.2014

Annexure-11.6(a) List of Officers

Registrar	Sandhu P.S
Deputy Registrar	Ray Dhrubajyoti
	Mukherjee Uday Chandra
	Chattopadhyay Alope Kr.
	Kumar Asit
Assistant. Registrar	Bhattacharya Sayan
	Das Ashutosh
	Sardar Amiya Kumar
	Mondal Debasish
Executive Engineer	Haldar Tanmay
Administrative Officer	Sinha Sanat Kumar
Physical Training Instructor	Mukherjee Hillol
Library	
Librarian	Mondal Manik PhD (till 31.01.2015)
Deputy Librarian	Vacant
Assistant Librarian	Vacant
Workshop	
Superintendent	Vacant
Technical Officer	Dutta Goutam R.N. Krishnaraj
Medical Unit-cum-Hospital	
Senior Medical Officer	Sarkar Banhi Kumar (Dr.)
Medical Officer(s)	Patra Sucharita (Dr.)
Estate Section	
Security Officer	Bhagat Ajit Kumar

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

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

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

Sl. No	Designation	In position
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Sl. No	Designation	In position
1	Asstt. Foreman	10
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	02
14	Laboratory Attd/Skilled Staff	07
15	LDA/LDC/Jr. Assistatant	25
16	Mali	01
17	Mazdoor	01
18	Mess Manager	01
19	Metron	01
20	Office Peon/Helper	36
21	Pharmacist	01
22	Sanitary Inspector	01
23	Security Inspector	Nil
24	Skilled Staff	13
25	Sr. Lib. Asst/Lib. Asst.	02
26	Stack Attd(Lib)	01
27	Staff Nurse	02
28	Store Attendant	-
29	Sweeper	-
30	Technical Assistant	20
31	Telephone Mechanics	01
32	UDA/UDC	16
33	Watchman	02
34	Workshop Attendant	01

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
1	Roy Ashok	Workshop	Tech. Officer	31.01.2015
2	Choudhuri Snehalata	ME	Helper	31.01.2015
3	Ganguli Manisankar	Personnel Section	UDA	30.06.2014
4	Mondal Manik	Library	Librarian	31.01.2015
5	Mukherjee Baidyanath	Library	Asstt. Librarian	31.01.2015
6	Nandi Sanatan	Civil Engg.	Lab. Attd.	31.01.2015
7	Ruidas Felaram	ME	Lab Attd.	30.04.2014

**Annexure – 11.7(a) Faculty deputed on QIP (doctoral programme) during this period
None****Annexure–11.7(b) Seminars, summer/winter schools, short term courses attended by faculty members during 2014-15**

Department of Biotechnology

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Chaudhuri, S	International Summer Term on Advanced Technologies for Wastewater Treatment and Recycling.	IIT Kharagpur	July 2- July 15, 2014
2	Mukhopadhyay, Sudit Sekhar	International Symposium on Genetic Analysis: Translational and Developmental (iNSGTD - 2014) & Annual Meeting of Society for Biotechnologists (India)	Burdwan University and Society for Biotechnologist	21 st November - 23 rd November 2014
3	Mukhopadhyay, Sudit Sekhar	National Seminar on Recent Advances in Biotechnological Research in North East India: Challenges and Prospects	Department of Molecular Biology and Biotechnology, Tezpur University	27 th November -29 th November, 2014

Department Of Chemical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Bimal Das	UGC-Sponsored Special Summer School, 2014 on "Science & Technology : Biomedical, Engineering & Environmental Issues"	UGC-Academic Staff College, University of Calcutta	12 June-2 July, 2014
2	Bimal Das	National Conference on Recent Trends in Chemical and Allied Industries: Engineering, Economics & Environment	IICChE Auditorium, Dr. H.L. Roy building, JU, Kolkata	28-29 June, 2014
3	Bimal Das	Workshop on Industry-Academia Workshop on " Instrumentation and Control"	IOCL, Haldia	10-11 Nov., 2014
4	Bimal Das	5th World PetroCoal Congress and Expo - 2015	PetroCoal, Delhi	15-17 Feb.,2015
5	Bimal Das	Trends in Petroleum -based Lubricants and Its Condition Monitoring Practices in Industries	IICChE Auditorium, Dr. H.L. Roy building, JU, Kolkata	14 March, 2015
6	Bimal Das	All India Work-shop on "Action Plan to Meet the challenges of Water Crisis in Present Scenario	IEI, Dhanbad	22 March, 2015
7	Bimal Das	Workshop on Industry-Academia Workshop on " Instrumentation and Control"	IOCL, Haldia	17-18, April,2015
8	G N Halder	5 th World Renewable Technology Congress	Expo and Convention Centre, Manekshaw Centre, New Delhi	August 21-23, 2014
9	Prof.T.Kumar	Workshop on Education Management	Techno India, Kolkata	24 May 2014
10	Prof.T.Kumar	IOC-IBP Conclave	IOC, Kolkata	24 June 2014
11	Prof.T.Kumar	NIT Directors Conference	Rashtrapati Bhavan	29-30 October, 2014
12	Prof.T.Kumar	Petroleum Conference	IIT Madras	3-5 November, 2014
13	Prof.T.Kumar	TCS Sangam 2014	Bangalore	12-13 December 2014

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
14	Prof.T.Kumar	ICC Conference	ISM Dhanbad	16 December 2014
15	Prof.T.Kumar	Petrocoal Congress	New Delhi	15-17 Feb 2015
16	Prof.T.Kumar	Seminar on Petroleum	CU Kolkata	20 March 2015
17	Prof.T.Kumar	World Water Day Conference	IEI Dhanbad	22 March 2015
18	T. Mandal	International conference on water: from pollution to purification (ICW-2015)	Kottayam, India	23–26 January 2015
19	C.M. Narayanan	International Conference on Bioprocess Engineering, Valencia, Spain,	Omics group International, USA	June 26 – 28, 2014.
20	C.M Narayanan.	International Conference on Advances in Chemical Eng. and Tech., Kollam, October 16 – 18, 2014.	TKM College of Engineering, Kollam	October 16 - 18, 2014 .

Department of Chemistry

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Adhikari U.	National Symposium on Recent Trends and Perspectives in Chemistry, 2015	NIT Sikkim	January 23-24, 2015
2	Adhikari U.	29 th carbohydrate Conference CARBO XXIX	Center of Innovative and Applied Bioprocessing, Mohali, Punjab	December 29-31, 2014
3	Chakrabarty J.	The 5 th Congress of the Asia Pacific Initiative on Reproduction (Aspire), Brisbane, Australia.	Asia Pacific Initiative on Reproduction	April 4-6, 2014
4	Chakrabarty J.	6th International Conference on the Epididymis (Epididymis I) Shanghai, China	Networks in Epididymis Basic and Clinic Research	October 31 – November 03, 2014
5	Maji M.	National symposium on recent trends and perspectives in chemistry	NIT, SIKKIM	January 23-24, 2015
6	Panja S.S.	UGC sponsored seminar on " Role of chemistry in human Civilization"	Jogesh Chandra Chaudhuri College, Kolkata	September 26, 2014
7	Panja S.S.	4 th International Conference on Molecular Sensor and Molecular Logic Gates	East China University of Science and Technology, Sanghai, China	November 9-12, 2014
8	Panja S.S.	National Symposium on Recent Trends and Perspectives in Chemistry, 2015	NIT Sikkim	January 23-24, 2015
9	Saha R. N	International Summer & Winter Term; Advanced Technologies for Wastewater Treatment and Recycling	IIT Kharagpur	July 2-15, 2014.
10	Saha R. N.	2015 6 th Inter National Conference on Environmental Science and Development (ICESD 2015)	APCBEEES	14.02.15-15.02.15

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
11	Saha R. N	7 th Bangalore India nano an International Conference	JNCASR, Bangalore	December 5-6, 2014.
12	Saha T. K	33 rd Annual National Conference, Indian Council of Chemists	Dept. of Applied Chemistry, ISM Dhanbad.	15 th -17 th December, 2014.

Department of Civil Engg

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Datta, A.K.	Training Programme on "Bridge Diagnostics, Performance Evaluation and Rehabilitation"	Central Road Research Institute (CRRI), New Delhi	June 16-20, 2014
2.	Nanda, R.P.	Road Safety Action Plan	P. Works Dept, Odisha	Jan.18-22, 2015
3.	Nanda, R.P.	Hindi Training	Rajbhasha Academy	Jan. 06-08, 2015
4.	Nanda, R.P.	Nonlinear Modeling & Seismic Response Evaluation of Str.	IIT Roorkee	Dec. 14-16, 2014
5.	Roy, P.	International Workshop on Emerging Trends in Earthquake Engineering & Structural Dynamics	Indian Institute of Technology Delhi	December 20-21, 2014
6.	Samanta A. K.	Entrepreneurial Empowerment through Design Case Studies under Design Clinic Scheme	MSME, GOI,	May 20, 2014
7.	Samanta A. K.	Nonlinear Finite Element Method (NLFEM-2014)	IIT Hyderabad	Dec. 16-19, 2014
8.	Samanta A. K.	Second Intl. Conference On Advances in Civil, Structural and Environmental Engineering ACSEE – 2014" at Zurich, Switzerland	IREC, USA	October 25 – 26, 2014
9.	Topdar, P.	Training Programme on "Bridge Diagnostics, Performance Evaluation and Rehabilitation"	Central Road Research Institute (CRRI), New Delhi	June 16-20, 2014

Department of Computer Science and Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Kisku, Dakshina Ranjan	One Week ISTE STTP Coordinators Workshop on "Introduction To Algorithms"	NMEICT Centre, IIT Kharagpur	March 15 – 20, 2015
2.	Sadhu, Sanjib	A five day Indo-German workshop on Algorithms	ACMU Unit, ISI Kolkata in collaboration with DFG (German Research Foundation)	March 9-13, 2015
3.	Sadhu, Sanjib	Pre-Conference School on Discrete Mathematics	IIT Kanpur in collaboration with TIFR Mumbai and Charles University, Prague	February 5-6, 2015

Department of Earth and Environmental Sciences

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Adhikari K.	National Seminar on Engineering Geology, Geotechniques and Geohazards – A quest for Excellence	Indian Society of Engineering Geology, Geological Survey of India	10.7.14 – 11.7.14
2.	Adhikari K.	2015 6 th International Conference on Environmental Science and Development (ICESD 2015)	CBEES, Held at Amsterdam, Netherland	14.02.15 – 15.02.15
3.	Adhikari K.	ISTE STTP for Coordinators on Environmental Studies	National Mission on Education through ICT, MHRD, GOI	23.3.15 – 27.3.15
4.	Mondal S.	47 IWWA Annual Convention, Kolkata, on Sustainable Technology Solutions for Water Management	Indian Water Works Association	30.01.15-01.01.15

Department of Electrical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Acharjee P.	Control Systems	IIT Kharagpur, sponsored by MHRD, NMEICT	2-12 December, 2014
2	Barman J C	Control System	NIT, Durgapur	2 nd to 12 th Dec'2014
3	Mahato S. N.	Workshop on "To share experiences and good practices on improving transition rate of students" at Bhubaneswar	NPIU TEQIP-II	27.08.2014
4	Mahato S. N.	Workshop on Control Systems under NMEICT (MHRD, Govt. of India)	IIT Kharagpur	02.12.2014 - 12.12.2014
5	Sarkar S.	Data Analytics with SAS	I.I.T., Kharagpur	13-15 Jan, 2015

Department of Electronics & Communication Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Kundu.S	National Conference on Communication 2014	IIT Kanpur	28 th Feb to 02 nd March, 2014
2.	Kundu.S	National Conference on Communication 2015	IIT Bombay	27 th Feb to 1 st March, 2015
3.	Kundu.S	IEEE International Conference on Advances in Computing and Communications (ICACC)	Rajagiri Instt of Technology, Kochin	27 th -29 th Aug, 2014
4.	Mahapatra R	INUP familiarization workshop on nanofabrication technologies	IIT Bombay	November 28-30, 2014
5.	Mal, A. K.	INUP familiarization workshop on nanofabrication technologies	IIT Bombay	November 28-30, 2014
6.	Mandal, S. K.	Short term course on "Design & Analysis of Efficient Systems for Microwave Transmission and Radiation".	IIT Kharagpur	February 23 - 28, 2015.
7.	Mandal, S. K.	Two-Week ISTE Workshop on "Control Systems".	NIT Durgapur	December 02-12, 2014

Department of Information Technology

SL. NO.	Name	Name of the Programme	Organized by	Date of the programme
1	Howlader, J.	e-Governance: Transforming Government Sector	National Productivity Council	September 22-26, 2014

Department of Management Studies

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Bandyopadhyay Gautam	ICBIM-2014	NIT Durgapur	January 2014, 9-14
2.	Dutta Avijan	International Finance conclave	Centre for Management studies, Jamia millia Islamic, New Delhi.	Feb 28 th , 2015
3.	Dutta Avijan	ICBIM-2014	NIT Durgapur	January 2014, 9-14

Department of Mathematics

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1.	Bagchi S.	Short Term Course on Cryptography	IIT Kharagpur	18-24 May, 2014
2.	Bagchi S.	National Instructional Workshop on Cryptology	MNIT Allahabad	5-9 June, 2014
3.	Bagchi S.	Winter School on Contemporary aspects of Cryptography	AMSI, University of Queensland, Brisbane, Australia	6-18 July, 2014.
4.	Bagchi S.	National Workshop on Cryptology	IIITDM, Jabalpur	25-27 September, 2014
5.	Bagchi S.	Interplay between Statistics and Cryptology	ISI Kolkata	December 1-5, 2014
6.	Dey L. K.	Winter School on Contemporary aspects of Cryptography	AMSI, University of Queensland, Brisbane, Australia	July 6-18, 2014.
7.	Dey L. K.	International Conference on Recent Advances in Pure and Applied Mathematics ICRAPAM-2014	Prof. Dr. Ekrem Savas, Istanbul Ticaret University, Turkey	6-9 November, 2014.
8.	Pal A.	Annual conference of ADMA and Graph theory	Reva Institute Of Technology And Management, Bangalore	10-13 June, 2014
9.	Pal A.	International Conference on DATA Information Management ICDIM 2014	ICDIM International committee	20-21 September, 2014
10.	Pal A.	National Conference on Electrical, Electronics and Computer Engineering, IEEE CALCON 2014	IEEE Kolkata Section	7-8 November, 2014
11.	Pal A.	International Conference on Current Developments in Mathematics and Mathematical Sciences, ICCDMMS-2014	Calcutta Mathematical Society	19-21 December, 2014

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
12.	Sarkar (Mondal) S.	National Seminar on Mathematics to Comemorate Sesquicentenary of Sir. Asutosh Mookerjee	Dept. of Mathematics, Sidho – Kanho – Birsha University, Purulia	25 April, 2014
13.	Sarkar (Mondal) S.	International Summer and Winter Term on Portfolio Optimization	Dept. of Mathematics, IIT Kharagpur	19 – 23 May, 2014
14.	Sarkar (Mondal) S.	National Workshop in Advanced Algorithm and Optimization 2014	NIT, Durgapur	15 -19 September 2014
15.	Sarkar (Mondal) S.	International Conference on DSS - EWMD	NIT, Durgapur	28 – 30 December 2014
16.	Basu K	National Workshop in Advanced Algorithm and Optimization 2014	Dept. of Mathematics, NIT Durgapur	15-19 September 2014

Department of Mechanical Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Barman, R.N.	3 rd International Conference On Hydrology & Meteorology,	the OMICS Group Conferences	September 5-16, 2014
2	Barman, R.N.	India Energy Congress 2015 Theme “Securing India’s Energy Future: Integration and Action”	Ministries of Power, Coal, New & Renewable Energy, Petroleum & Natural Gas, External Affairs and Department of Atomic Energy, New Delhi.	January 28-29, 2015.
3	Hui N. B.	ISTE Workshop on Control Systems	IIT Kharagpur at NIT Durgapur	December 2-12, 2014
4	Hui N. B.	Teaching Signal Processing and Control Systems using Matlab and Simulink	Mathworks	November 7, 2014
5	Khan K.	International Workshop on Computational Methods in Vibration and Acoustics (IWCMVA-2015)	ISM Dhanbad	March 16-16, 2015
6	Layek A.	Measurement Techniques in Thermal Engg: Recent Advances	IIT Indore	May 30 – 31, 2014
7	Pramanik, S.	Securing India’s Energy Future: Integration & Action	IOCL, ONGC, BARC, NTPC, CIL, BHEL, Deloitte, Min. of Ren. Energy, Min. of P&NG, Min. of Coal	January 28 – 29, 2015

Department of Metallurgical and Materials Engineering

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Mondal M. K.	Workshop on Molecular Dynamics and Monte Carlo Methods	UGC Networking resource Centre for Materials, Department of materials Engineering, IISc,	June 22-27, 2014

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
			Bangalore	
2	Mondal M. K.	International Workshop on Iron and Steelmaking (IWIS 2014)	Department of materials Engineering, IISc, Bangalore Bangalore-560012, India	Dec 3- 5, 2014
3	S. Bera	International Conference on ADVANCED MATERIALS AND ENERGY TECHNOLOGY	IEST, Shibpur, India and Southern University, Baton Rouge, Louisiana, USA	Dec17-19, 2014
4	K. S. Ghosh	Organising member and attended Int. Conf. on "Emerging Materials – Characterisation and applications, EMCA-2014, CGCRI-NIT Dgp, Kolkata	NIT Durgapur and CGCRI, Kolkata	Dec 4-6, 2014
5	K. S. Ghosh	Attended and chair a session in a "3 rd Int. Conf. on "Laser and Plasma Applications in Materials Science"	IIT- Kharagpur, IIT Kanpur, IIM Kolata, CDTA-Algeria	Jan15-17, 2015
5	MM Ghosh	International Conference "7 th Bangalore India Nano"	Department of IT, BT&S&T, Government of Karnataka under the guidance of Vision Group on JNCASR	Dec 4-6, 2014

Department of Physics

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
1	Chaudhuri Hirok	Short Term Course : National Training Programme on Advances in New and Renewable Energy Materials and Technology	Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand	March 23- March 27, 2015
2	Chaudhuri Hirok	Short Term Course : Experimental Techniques for Material Characterization (ETMC-2015)	Physics Department, NIT Durgapur	February 27- March 03, 2015
3	Chaudhuri Hirok	Seminar : Prof. M. S. Sinha Colloquium	Physics Department, NIT Durgapur	January 30, 2015
4	Chaudhuri Hirok	Conference : International Conference on Decision Support Systems for Early Warning and Mitigation of Disaster	Civil Engineering Department, NIT Durgapur	December 28- December 30, 2014
5	Chaudhuri Hirok	Short-Term Course : Recent Trends in Materials Science and Electronics (RTMSE – 2014)	Physics Department, NIT Durgapur	December 10- December 14, 2014
6	Chaudhuri Hirok	Conference : First International Conference on "Emerging Materials: Characterization & Application	Physics Department, NIT Durgapur	December 04- December 06, 2014
7	Chaudhuri Hirok	Seminar & Instrumental Training : Industry-Institute-Interaction Programme on "Equipments Chronicle – Bench to Palmtop"	Physics Department, NIT Durgapur & AnaSys Solutions, Kolkata	October 29, 2014

SL. NO	Name	Name of the Programme	Organized by	Date of the programme
8	Kumbhakar P	"Management Capacity Enhancement for Administrators"-10 th batch under TEQIP-II	IIM Lucknow, Noida Campus	August 19-23, 2014
9	Meikap A. K.	TEQIP-II: Regional Workshop for Student, Faculty & Non-Teaching Staff Satisfaction Survey organized by NPIU, New Delhi & SPFU, W.B.,	Salt Lake Campus of Jadavpur University	September 25th 2014
10	Meikap A. K.	Organized "International Conference of Emerging Materials: Characterization and Application (EMCA-2014)",	National Institute of Technology, Durgapur and CSIR-CGCRI, Jadavpur, Kolkata	December 4-6, 2014
11	Meikap A. K.	National Seminar "59th DAE-Solid State Physics Symposium (DAE-SSPS-2014)"	VIT University, Vellore, T.N.	December 16-20, 2014
12	Meikap A. K.	Workshop on "Characterization and Functionalization of Nanomaterials (CFN-2015)" under UGC-Networking Programme,	Department of Physics, Banaras Hindu University, Varanasi,	March 9th to 13th 2015
13	Sahoo S.	Seminar on Ballistics: A Multidisciplinary Physical Science (BMPS-2015)	Fakir Mohan University, Balasore – 756019, Odisha	February 14–15, 2015

Annexure – 11.7(c) Training of staff members during 2014-15 Nil

Annexure– 11.8(a) List of programmes offered

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

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

Sl. No.	Programme Offered	Degree Offered
1	Biotechnology	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	

Dept. / Specialisation	Year of Starting	Full / Part time	Duration	Sanctioned intake
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
Earth & Environmental Studies – 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	60
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, 2014-2015 (Genderwise):****Enrolment of Indian students in odd semesters of B. Tech. courses, 2014-2015 (Genderwise):**

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech I	92 (30)	64 (19)	67 (3)	96 (20)	91 (25)	95 (16)	96 (34)	139 (4)	76 (15)	816 (166)
B.Tech III	78 (29)	55 (12)	61 (7)	91 (23)	95 (21)	91 (14)	93 (23)	139 (4)	79 (16)	782 (149)
B.Tech V	80 (18)	63 (16)	67 (4)	94 (16)	93 (20)	96 (15)	88 (15)	141 (2)	74 (9)	796 (115)

B.Tech VII	73 (18)	61 (11)	50 (2)	89 (17)	87 (20)	83 (10)	90 (16)	131 (2)	71 (7)	735 (103)
Total	323 (95)	243 (58)	245 (16)	370 (76)	366 (86)	365 (55)	367 (88)	550 (12)	300 (47)	3129 (533)

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

Enrolment of foreign students in odd semesters of B. Tech. courses, 2014 – 2015 (Genderwise):

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech I	1 (1)	5 (4)	6 (1)	10 (4)	4 (2)	3 (0)	0 (0)	8 (2)	0 (0)	37 (14)
B.Tech III	1 (0)	0 (0)	6 (2)	10 (5)	7 (3)	4 (1)	0 (0)	15 (2)	0 (0)	43 (13)
B.Tech V	0 (0)	0 (0)	12 (3)	4 (0)	8 (2)	5 (0)	0 (0)	22 (1)	0 (0)	51 (6)
B.Tech VII	1 (0)	1 (1)	5 (1)	1 (0)	2 (0)	7 (4)	1 (1)	9 (1)	1 (0)	28 (8)
Total	3 (1)	6 (5)	29 (7)	25 (9)	21 (7)	19 (5)	1 (1)	54 (6)	1 (0)	159 (41)

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

Enrolment of Indian students in even semesters of B. Tech. courses, 2014-2015 (Genderwise)

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech II	83 (26)	63 (19)	62 (3)	95 (18)	90 (23)	91 (15)	89 (31)	133 (3)	74 (15)	780 (153)
B.Tech IV	77 (29)	55 (12)	65 (7)	89 (24)	92 (21)	91 (14)	91 (22)	136 (4)	77 (16)	773 (149)
B.Tech VI	76 (17)	63 (16)	66 (5)	95 (16)	93 (20)	97 (16)	88 (15)	128 (2)	74 (9)	780 (116)
B.Tech VIII	73 (18)	61 (11)	50 (2)	90 (18)	87 (20)	83 (10)	90 (16)	129 (2)	71 (7)	734 (104)
Total	309 (90)	242 (58)	243 (17)	369 (76)	362 (84)	362 (55)	358 (84)	526 (11)	296 (47)	3067 (522)

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

Enrolment of foreign students in even semesters of B. Tech. courses, 2014 – 2015 (Genderwise) :

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech II	1 (1)	5 (4)	5 (1)	10 (4)	4 (2)	3 (0)	0 (0)	8 (2)	0 (0)	36 (14)
B.Tech IV	1(0)	0 (0)	6 (2)	10 (5)	7 (3)	4 (1)	0 (0)	15 (2)	0 (0)	43 (13)
B.Tech VI	0 (0)	0 (0)	12 (3)	4 (0)	8 (2)	5 (0)	0 (0)	21 (1)	0 (0)	50 (6)
B.Tech VIII	1 (0)	1 (1)	5 (1)	2 (0)	2 (0)	7 (4)	1 (1)	9 (1)	1 (0)	29 (8)
Total	3 (1)	1 (5)	28 (7)	26 (9)	21 (7)	19 (5)	1 (1)	53 (6)	1 (0)	153 (41)

(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, 2014-2015 (Castewise):**Enrolment of Indian Students in odd semesters of B. Tech. Courses, 2014- 2015 (Castewise):**

Dept.	B.Tech					B.TECH					B.TECH					B.TECH				
	I Semester					III Semester					V Semester					VII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	44	13	8	28	93	30	13	4	31	78	40	11	4	25	80	44	9	3	17	73
ChE	33	7	5	19	64	26	8	4	17	55	33	7	6	17	63	34	7	4	16	61
CE	35	9	4	18	66	28	9	4	20	61	34	11	6	18	69	28	3	3	16	50
CSE	49	15	7	25	96	44	14	7	26	91	47	13	6	28	94	47	14	6	22	89
ECE	49	14	6	27	96	44	17	7	27	95	47	13	7	26	93	45	11	7	24	87
EE	46	14	7	28	95	39	13	7	32	91	46	16	8	26	96	46	8	6	23	83
IT	48	14	7	24	93	46	16	7	24	93	46	12	5	25	88	46	13	6	25	90
ME	65	21	10	40	136	62	21	9	43	135	73	18	9	40	140	64	21	9	37	131
MME	37	12	6	22	77	36	13	4	26	79	38	10	6	20	74	36	12	6	17	71
Total	406	119	60	231	816	355	124	53	246	778	404	111	57	225	797	390	98	50	197	735

Enrolment of Indian Students in even semesters of B. Tech. Courses, 2014- 2015 (Castewise):

Dept.	B.Tech					B.TECH					B.TECH					B.TECH				
	II Semester					IV Semester					VI Semester					VIII Semester				
	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT	OP	SC	ST	OBC	TOT
BT	42	11	5	26	84	30	13	4	30	77	38	10	4	24	76	44	9	3	17	73
ChE	33	7	5	18	63	26	8	4	17	55	33	7	6	17	63	34	7	4	16	61
CE	33	8	3	17	61	28	12	4	21	65	33	11	4	18	66	28	3	3	16	50
CSE	47	15	7	25	94	43	13	7	26	89	46	13	7	28	94	47	15	6	22	90
ECE	47	15	6	27	95	44	15	6	27	92	47	13	7	26	93	45	11	7	24	87
EE	42	14	7	28	91	39	13	7	32	91	45	17	8	27	97	46	8	6	23	83
IT	46	12	7	23	88	45	16	7	23	91	46	12	5	25	88	46	13	6	25	90
ME	65	17	10	37	129	63	22	8	43	136	71	14	8	36	129	64	20	9	36	129
MME	37	12	5	20	74	35	13	4	25	77	38	10	6	20	74	36	12	6	17	71
Total	392	111	55	221	779	353	125	51	244	773	397	107	55	221	780	390	98	50	196	734

11.8. (b). 3. Enrolment in M. Tech. & M. Sc. Programmes, 2013-2014 (Gender wise)

Sem	BT	CA	ChE	CH	CE (SU)	CE (GT)	CSE	EE (PS)	EE (PMB)	ECE (TELE)	ECE (VLSI)	EES (EST)	IT	M	ME	MME (IM)	MME (ME)	PH	CC	TOT
M.Tech I & II	19 (10)	18 (9)	20 (7)	2 (0)	20 (2)	13 (2)	20 (7)	14 (3)	13 (0)	23 (6)	22 (5)	15 (5)	20 (4)	10 (2)	17 (1)	3 (1)	6 (5)	18 (1)	15 (06)	288 (76)
M.Tech III & IV	13 (10)	18 (4)	15 (8)	7 (4)	19 (5)	-	23 (5)	18 (6)	-	19 (7)	18 (2)	11 (6)	19 (4)	15 (5)	18 (0)	6 (3)	4 (3)	14 (4)	-	237 (76)
M.Tech V & VI	-	-	-	-	-	-	-	5 (0)	-	-	-	-	-	2 (0)	2 (0)	1 (0)	-	-	-	10 (0)
M.Sc I & II	-	-	-	18 (9)	-	-	-	-	-	-	-	-	-	16 (7)	-	-	15 (5)	-	-	49 (21)
M.Sc III & IV	-	-	-	16 (9)	-	-	-	-	-	-	-	-	-	15 (5)	-	-	14 (6)	-	-	45 (20)

(Number of female students indicated in parenthesis/ next row)

11.8. (b). 4. Enrolment in M. Tech. & M. Sc. Programmes, 2012– 2013 (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	13 (6)	2 (2)	1 (0)	3 (2)	19 (10)	9 (3)	2 (0)	1 (0)	1 (1)	13 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CA	9 (7)	3 (0)	0 (0)	6 (1)	18 (8)	11 (3)	3 (1)	1 (0)	3 (1)	18 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ChE	16 (7)	2 (0)	0 (0)	2 (0)	20 (7)	12 (3)	3 (0)	0 (0)	0 (0)	15 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CH	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)	6 (4)	0 (0)	0 (0)	1 (0)	7 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CE (SU)	12 (1)	2 (1)	1 (0)	5 (0)	20 (2)	12 (4)	3 (1)	1 (0)	3 (1)	19 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CE (GT)	7 (1)	1 (0)	0 (0)	5 (0)	13 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CSE	11 (5)	3 (1)	1 (1)	5 (0)	20 (7)	15 (8)	3 (0)	1 (0)	4 (0)	23 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
EE (PS)	8 (2)	0 (0)	0 (0)	2 (0)	10 (2)	11 (1)	3 (1)	1 (0)	3 (1)	18 (3)	4 (0)	0 (0)	0 (0)	0 (0)	4 (0)
EE (PO)	8 (0)	2 (0)	0 (0)	3 (0)	13 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ECE(TELE)	14 (5)	2 (0)	1 (0)	6 (1)	23 (6)	11 (7)	3 (0)	1 (0)	4 (1)	19 (8)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ECE(VLSI)	12 (5)	3 (0)	1 (0)	6 (0)	22 (55)	9 (1)	4 (1)	1 (0)	4 (1)	18 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
EES(EST)	8 (5)	3 (0)	1 (0)	3 (0)	15 (5)	7 (2)	2 (2)	0 (0)	2 (2)	11 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
IT	12 (4)	3 (0)	0 (0)	5 (1)	20 (5)	12 (4)	2 (0)	1 (0)	4 (0)	19 (4)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M(OR)	6 (2)	1 (0)	0 (0)	3 (0)	10 (2)	10 (2)	2 (0)	1 (0)	2 (0)	15 (2)	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)
ME	8 (1)	3 (0)	1 (0)	4 (0)	16 (1)	12 (0)	2 (1)	1 (0)	3 (0)	18 (1)	2 (0)	0 (0)	0 (0)	0 (0)	2 (0)
MME(IM)	3 (1)	0 (0)	0 (0)	0 (0)	3 (1)	1 (1)	2 (0)	1 (0)	2 (0)	6 (1)	0 (0)	0 (0)	0 (0)	1 (0)	1 (0)
MME(ME)	3 (2)	2 (2)	0 (0)	1 (1)	6 (5)	4 (1)	0 (0)	0 (0)	0 (0)	4 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
PH	11 (1)	1 (0)	0 (0)	6 (0)	18 (1)	7 (4)	1 (0)	0 (0)	6 (2)	14 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
CC	10 (3)	2 (2)	0 (0)	3 (1)	15 (6)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc(CH)	10 (4)	3 (3)	0 (0)	5 (2)	18 (9)	9 (6)	3 (3)	0 (0)	4 (0)	16 (9)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc.(Math)	10 (6)	2 (0)	0 (0)	4 (1)	16 (7)	9 (1)	2 (1)	0 (0)	4 (0)	15 (2)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
M.Sc(PH)	10 (3)	1 (1)	0 (0)	5 (1)	16 (5)	7 (4)	1 (0)	0 (0)	6 (1)	14 (5)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Total	203	41	7	82	333	174	41	11	56	282	8	0	0	1	9

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

* 1 QIP (Poly)

\$ 2 Foreign students

Number of Female students indicated in parenthesis

1.8. (b). 5. Enrolment in MCA programmes, 2014-2015 (Gender wise)

Master of Computer Applications (MCA)	I & II Semester	III & IV Semester	V & VI Semester
		70 (20)	85 (21)

(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, 2014–2015 (Caste wise)

Dept	MCA I & II					MCA III & IV				MCA V & VI				
	OP	SC	ST	OBC	TOT	OP	SC	OBC	TOT	OP	SC	ST	OBC	TOT
MCA	37	11	2	20	70	43	12	23	78	40	13	4	21	78

11.8. (b) 7. Enrolment in MBA programmes, 2014-2015 (Gender wise)

Master of Business Administration (MBA)	I & II Semester	III & IV Semester
		38 (15)

(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, 2014-2015 (Caste wise)

Dept	MBA I & II					MBA III & IV			
	OP	SC	ST	OBC	TOT	OP	SC	OBC	TOT
MBA	24	2	3	9	38	34	6	20	60

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

11.8 (b). 9. Enrolment of Research Scholars for PhD during 2014–2015 (Full time & Part time):

SL. NO.	Branch of Research Study	Gender Break Up		Caste Break Up			Total
		Male	Female	SC	ST	OBC	
1	Biotechnology	5	7	3	-	-	3
2	Chemical Engineering	7	8	2	1	1	4
3	Chemistry	5	-	-	-	-	-
4	Civil Engineering	10	2	3	-	-	3
5	Computer Applications	8	3	-	-	-	-
6	Computer Science & Engineering	3	-	-	-	2	2
7	Earth & Environmental Studies	2	-	-	-	1	1
8	Electrical Engineering	4	-	-	-	1	1
9	Electronics & Communications Engineering	14	6	6	-	2	8
10	Humanities & Social Sciences	4	5	-	-	2	2
11	Information Technology	6	3	-	1	1	2
12	Management Studies	-	2	-	-	-	-
13	Mathematics	7	1	1	-	1	2
14	Mechanical Engineering	11	2	2	-	2	4
15	Metallurgical & Materials Engineering	5	1	1	-	2	3
16	Physics	4	4	-	-	1	1
17	Computer Centre	2	2	-	-	1	1
Total		97	46	18	2	17	37

Annexure – 11.8 (c) Admission statistics – UG & PG**11.8 (c) 1. The number of candidates admitted to B. Tech. programmes from rural and urban area during 2014-2015**

SL.NO	STATE	RURAL					URBAN					Overall Total
		OP	OB	S C	ST	TOTAL	OP	OB	S C	ST	TOTAL	
1	Andaman & Nicobar	5	4	-	-	9	12	4	-	-	16	25
2	Andhra Pradesh	-	-	1	-	1	-	-	-	-	-	1
3	Arunachal Pradesh	29	22	6	8	65	55	24	9	8	96	161
4	Assam	2	-	-	5	7	3	-	3	-	6	13
5	Bihar	10	19	9	1	39	20	15	-	8	43	82
6	Chandigarh	-	-	-	-	-	-	-	-	-	-	-
7	Chattisgarh	-	2	1	-	3	2	-	-	-	2	5
8	Delhi	-	-	-	-	-	1	-	-	-	1	1
9	Goa	-	-	-	-	-	-	-	-	-	-	-
10	Himachal Pradesh	-	-	-	-	-	-	-	-	-	-	-
11	Jammu & Kashmir	1	-	-	-	1	-	-	-	-	-	1
12	Jharkhand	2	2	2	1	7	5	3	1	2	11	18
13	Madhya Pradesh	1	1	-	-	2	4	-	1	-	5	7
14	Maharashtra	-	-	2	-	2	3	-	1	-	4	6
15	Meghalaya	-	-	-	-	-	-	1	-	-	1	1
16	Orissa	-	-	-	-	-	2	-	1	-	3	3
17	Rajasthan	5	1	-	2	8	6	2	4	2	14	22
18	Tamil Nadu	-	-	-	-	-	1	1	-	-	2	2

19	Tripura	-	1	-	-	1	-	-	-	-	-	1
20	Uttar Pradesh	17	15	4	-	36	21	8	6	2	37	73
21	West Bengal	37	42	1 6	14	109	16 1	64	4 4	15	284	393
22	Telangana	-	-	-	-	-	-	-	-	-	-	-
23	Bangladesh	-	-	-	-	-	-	-	-	-	6	6
24	Bhutan	-	-	-	-	-	-	-	-	-	8	8
25	Ghana	-	-	-	-	1	-	-	-	-	-	1
26	Gujarat	1	-	-	-	1	-	-	-	-	-	1
27	Sri Lanka	-	-	-	-	-	-	-	-	-	1	1
28	Mauritius	-	-	-	-	-	-	-	-	-	10	10
29	Mozambique	-	-	-	-	1	-	-	-	-	1	2
30	Namibia	-	-	-	-	-	-	-	-	-	-	-
31	Nepal	-	-	-	-	2	-	-	-	-	1	3
32	Tanzania	-	-	-	-	-	-	-	-	-	-	-
33	UAE	-	-	-	-	-	-	-	-	-	2	2
34	Vietnam	-	-	-	-	-	-	-	-	-	-	-
35	Zambia	-	-	-	-	-	-	-	-	-	-	-
36	Zimbabwe	-	-	-	-	-	-	-	-	-	1	1
37	Belgium	-	-	-	-	-	-	-	-	-	1	1
38	Maldives	-	-	-	-	-	-	-	-	-	1	1
39	Thailand	-	-	-	-	-	-	-	-	-	1	1

11.8 (c) 2. The ranks (AIR) obtained by the first and the last candidates admitted to B. Tech. programmes during 2014-2015

SL. NO.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andaman &	36210	303433	222689	358895	-	-	-	-

	Nicobar								
2	Andhra Pradesh	-	-	-	-	81748	-	-	-
3	Arunachal Pradesh	5032	294214	11610	51704	52150	167639	93387	229102
4	Assam	9668	18386	-	-	77593	186329	129745	244736
5	Bihar	7535	57149	14205	625263	54966	513464	119456	-
6	Chandigarh	-	-	-	-	-	-	-	-
7	Chattisgarh	9762	12465	17997	19459	83488	-	-	-
8	Delhi	41430	-	-	-	-	-	-	-
9	Goa	-	-	-	-	-	-	-	-
10	Gujarat	12861	-	-	-	-	-	-	-
11	Himachal Pradesh	-	-	-	-	-	-	-	-
12	Jammu & Kashmir	15750	-	-	-	-	-	-	-
13	Jharkhand	6603	134579	16059	98725	75861	84387	95026	221676
14	Madhya Pradesh	24117	106613	51934	-	175331	-	-	-
15	Maharashtra	12829	26579	-	-	90815	121350	-	-
16	Meghalaya	-	-	14059	-	-	-	-	-
17	Orissa	28347	447759	-	-	139056	-	-	-
18	Rajasthan	8246	50503	20423	37563	79379	174957	96838	238852
19	Tamil Nadu	26605	-	51986	-	-	-	-	-
20	Telangana	-	-	-	-	-	-	-	-
21	Uttar Pradesh	9265	260006	16418	51640	48925	122421	174574	393422
22	West Bengal	5505	502519	19786	764936	41294	250935	43932	903025
23	Tripura	-	-	13257	-	-	-	-	-

11.8(c) 3. The number of candidates admitted to B. Tech. programmes from various income groups during 2014-2015

SL NO	STATE	Belo w Rs. 6000	Rs.6001 -12000	Rs.12001 -18000	Rs.18001 -24000	Above Rs.24000	TOTAL
1	Andaman & Nicobar	-	-	-	-	25	25
2	Andhra Pradesh	-	-	-	-	1	1
3	Arunachal Pradesh	-	-	-	1	160	161
4	Assam	-	-	-	1	12	13
5	Bihar	-	-	1	-	81	82
6	Chandigarh	-	-	-	-	-	-

7	Chattisgarh	-	-	-	1		5
8	Delhi	-	-	-	-	1	1
9	Goa	-	-	-	-	-	-
10	Gujarat	-	-	-	-	1	1
11	Himachal Pradesh	-	-	-	-	-	-
12	Jammu & Kashmir	-	-	-	-	1	1
13	Jharkhand	-	-	-	-	18	18
14	Madhya Pradesh	-	-	-	-	7	7
15	Maharashtra	-	-	-	-	6	6
16	Meghalaya	-	-	-	-	1	1
17	Orissa	-	-	-	-	3	3
18	Rajasthan	-	-	-	-		22
19	Tamil Nadu	-	-	-	-	2	2
20	Uttar Pradesh	-	-	3	5		65
21	West Bengal	-	-	1	3	389	393
22	Telengana	-	-	-	-	-	-
23	Tripura	-	-	-	-	1	1
24	Bangladesh	-	-	-	-	6	6
25	Bhutan	-	-	-	-	8	8
26	Ghana	-	-	-	-	1	1
27	Iran	-	-	-	-	-	-
28	Marititus	-	1	2	2	5	10
29	Mozambique	-	-	-	-	2	2
30	Namibia	-	-	-	-	-	-
31	Nepal	-	-	-	-	3	3
32	Tanzania	-	-	-	-	-	-
33	UAE	-	-	-	-	2	2
34	USA	-	-	-	-	-	-
35	Vietnam	-	-	-	-	-	-
36	Zambia	-	-	-	-	-	-

37	Zimbabwe	-	-	-	-	1	1
38	Belgium	-	-	-	-	1	1
39	Maldives	-	-	-	-	1	1
40	Srilanka	-	-	-	-	1	1
41	Thailand	-	-	-	-	1	1

11.8 (c) 4. The details of admission to the M. Tech. & M. Sc. programmes during 2014-2015

SL. NO.	Name of the Deptt.	Specialisations	Total
1	Biotechnology	Biotechnology	19
2	Chemical Engineering	Chemical Engineering	20
3	Chemistry	Corrosion Science & Technology	2
4 (a)	Civil Engineering	Structural Engineering	20
(b)	Civil Engineering	Geotechnical Engineering	13
5	Computer Applications	Software Engineering	18
6	Computer Science & Engineering	Computer Science & Technology	20
7	Earth & Environmental Studies (Coordinating Department)	Environmental Science & Technology	15
8 (a)	Electrical Engineering	Power Systems	10
(b)	Electrical Engineering	Power Electronics & Drives	13
9	Electronics & Communication Engineering	Telecommunication Engineering	23
10	Electronics & Communication Engineering	Microelectronics & VLSI	22
11	Information Technology	Information Security	20
12	Mathematics	Operations Research	10
13	Mechanical Engineering	Design & Production Engineering	17
14	Metallurgical & Materials Engineering	Industrial Metallurgy	3
15	Metallurgical & Materials Engineering	Materials Engineering	6
16	Physics	Advanced Materials Science & Technology	18
17	Chemistry	M.Sc	18
18	Mathematics	M.Sc	16
19	Physics	M.Sc	16
	TOTAL		319

Annexure – 11.9(a) Scholarships & Stipends: 2014-2015

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

SL NO	NAME OF THE SCHOLARSHIP	HEAD OF SCHOLARSHIP	Rs.	TOTAL
1	GOVT.OF AP	TUITION FEE & OTHER	42,117/- Per Student	1
2	W.B.P.M.SCHOLARSHIP SC	STIPEND	19,500/- Per Student	32
3	W.B.P.M.SCHOLARSHIP ST	STIPEND	19,500/- Per Student	8
4	W.B.P.M.SCHOLARSHIP OBC	STIPEND	14,000/- Per Student	32
5	N.H.F.D.C	TUITION FEE & OTHER	55,827/- Per Student	5
6	SCHNIDER ELECTRIC INDIA	STIPEND	30,000/- Per Student	3
7	I.O.C.L	STIPEND	18,000/- Per Student	6
8	E.C.S.S	STIPEND	25,000/- Per Student	1
9	F.F.E	STIPEND	40,000/- Per Student	25
10	F.F.E	STIPENDT	40,000/- Per Student	9
11	B.L.C	STIPEND	40,000/- Per Student	4
12	FULL FREESHIP	TUITION FEE FULL	35,000/- Per Student	41
13	FULL FREESHIP	TUITION FEE FULL	90,000/- Per Student	2
14	HALF FREESHIP	TUITION FEE HALF	17,500/- Per Student	110
15	STUDENT'S AID FUND	STIPEND	24,000/- Per Student	73
16	F.A.E.A	MESS FEE(RENEWAL)	25000/- Per Student	1
17	F.A.E.A	TUITION FEES+MESS (RENEWAL)	42000/- Per Student	2
18	F.A.E.A	TUITION FEE+MESS+OTHER	50,000/- Per Student	2
19	O.P.J.E.M.S	TUITION FEE & OTHER	80,000/- Per Student	3

Annexure – 11.9 (b) Awards during 2014-15

1. Dr. S. Nandi and his research group won ITRA (Mobile) Best LIN-PIN Award for project DISARM in 2015.
2. Dr. S. Nandi's PhD Scholar Mr. Sujoy Saha has won the Best Ph.D. Dissertation Award from Information Technology Research Academy, Ministry of Communication and Information Technology, Government of India for outstanding contribution to project DISARM, 2015.
3. Dr. S. Nandi's PhD Scholar Mr. Sujoy Sahais the winner of IEEE Travel Grant for PerCom Conference 2015.
4. Dr. S. Nandi's PhD Scholar Mr. Partha Sarathi Paul is the winner of IEEE Travel Grant for ComsNets Conference 2015.
5. Dr. T. Pal and her co-authors (Das, S., Rani, M., Kar, S.) received Best Paper Award for the paper "Interval-valued induced averaging aggregation operator and its application in group decision making with intuitionistic fuzzy information" at the conference titled 7th International Joint Conference on Computational Sciences and Optimization (CSO 2014) which was held in Beijing, China between 4th July and 6th July, 2014.

6. Dr. D.R. Kisku's name has been included in Marquis's 12th Edition of Who's Who in Science and Engineering for the year 2016-17, Marquis's Who's Who, USA, January 2015.
7. Dr. D.R. Kisku's name has been included in IBC's Biography of Top 100 Engineers, Melrose Press, U. K., November 2014.
8. Prof. S. Banerjee, Professor department of Elect Engg elected Senior member IEEE(USA) in 7th February, 2015.
9. Mandal, S. K., Assistant Professor, Electronics and Communication Engineering, was felicitated by IEEE AP-MTT Joint Chapter Kolkata Section in Young Scientist Colloquium held at Indian Institute of Engineering Science and Technology on August 19, 2014
10. Dutta A: 'Excellent paper Award' for one of the technical session in the International Conference organised by the IACSIT at Geneva Switzerland on October 8-9, 2014.
11. Bera S., Assistant Professor, Department of Metallurgical and Materials Engg., was honoured and achieved the award "Marie Curie Fellowship for Post Doctoral Research for one year at the Leibniz-Institute for solid state and Materials Research Dresden, Germany", March 2015.
12. Final year B. Tech. student Mr. Piyush Haluai with Dr. M. Mallik has secured 1st (First) place in Technova (Physical and Mechanical) event of COMPOSIT' 15 organized by the Society of Metallurgical Engineers, Department of Metallurgical and Materials Engineering, Indian Institute of Technology kharagpur, during the academic session 2014-15.
13. Dr. Hirok Chaudhuri was felicitated for "outstanding achievement /contribution to the civil society of Birbhum District, West Bengal" from Birbhum Zilla Parishad. Award was received from District Magistrate, Birbhum District on 9th September, 2014.

Annexure-11.10 (a) Vocational training

- 1 ABB
- 2 ACC Limited
- 3 Alloy Steels Plant, Durgapur
- 4 Bhaba Atomic Research Centre
- 5 Bharat Sanchar Nigam Ltd.
- 6 Bharat Heavy Electricals Limited
- 7 Bokaro Steel Limited , Bokaro
- 8 CERN, Geneva
- 9 C.E S C , Kolkata
- 10 CGCRI, Kolkata
- 11 CMERI, Durgapur
- 12 Centre for Development Of Advanced Computing
- 13 Damoder Valley Corporation
- 14 Durgapur Chemicals Ltd.
- 15 Durgapur Projects Ltd.
- 16 Durgapur Steel Plant
- 17 ESSAR Steel
- 18 Hero Motors
- 19 H.P.L
- 20 I.P.C.L,
- 21 I.S .P Burnpur
- 22 Indian Oil Corporation Ltd
- 23 IIT, Madras
- 24 I.I.T. Guwahati
- 25 Indian Farmers Fertilizer Coop Ltd
- 26 Microsoft
- 27 M.N.Dastur
- 28 Mahindra & Mahindra Ltd.
- 29 NTPC Farakka
- 30 National Aerospace Laboratories
- 31 Praxair
- 32 Polaris Financial Technology
- 33 Surgerica
- 34 Tata Steel
- 35 Technical Training Centre, CLW
- 36 Tata Power Co. Ltd.
- 37 Visakhapatnam Steel Plant

Annexure-11.10(b) Placement statistics during 2014 – 2015
UG-2015 PLACEMENT RECORDS

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
			B.Tech									
			BT	CHE	CIV	CSE	ECE	EE	IT	ME	MME	TOTAL
1	CDOT	R.H. SCHEME	-	-	-	2	2	-	-	-	-	4
2	PAY U	PPO	-	-	-	2	-	-	-	-	-	2
3	TATA STEEL	PPO	-	-	-	-	-	-	-	-	1	1
4	CESC	PPO	-	-	-	-	-	-	-	1	-	1
5	AMAZON	30.7 4.8.14	-	-	-	2	-	-	0	-	-	2
6	DIRECT I	6.8.14	0	0	0	0	0	0	0	0	0	0
7	FUTURE FIRST	7,14.8.14	0	1	0	0	1	0	0	0	1	3
8	MARUTI	9.8.14	-	-	-	-	-	-	-	4	-	4
9	NOVELL	12.8.14	-	-	-	3	0	-	3	-	-	6
10	MICROSOFT	1,13.8.14	-	-	-	6	-	-	0	-	-	6
11	HINDUSTAN UNILEVER	13,14,18.8.14	-	1	-	-	-	2	-	0	-	3
12	ORACLE(OFSS)	18.8.14	-	0	0	5	2	1	2	0	-	10
13	VERITY	19.8.14	4	0	0	0	0	0	2	0	0	6
14	M.N.DASTUR	20 & 23.8.14	-	1	-	-	-	0	-	1	1	2
15	SCHNEIDER ELECTRIC	18.8, 25.9.14	-	-	-	0	0	4	0	0	-	4
16	NRI FINTECH	25,26.8.14	-	-	-	1	0	0	1	-	-	2
17	POLARIS FINTECH	26,27.8.14	-	-	-	1	4	-	1	-	-	6
18	L&T ECC	27,28.8.14	-	-	10	-	-	9	-	6	0	25
19	MUSIGMA	27,28.8.14	3	2	1	2	5	2	0	2	3	20
20	TCS	2,3,4.9.14	27	18	8	24	43	32	21	36	22	229
21	IBM	5,6.9.14	4	6	6	4	8	6	26	4	10	73
22	LISTER TECHNOLOGY	10.9.14	-	-	-	1	0	0	0	-	-	1
23	ITC INFOTECH	11,13.9.14	-	-	-	0	0	0	2	-	-	2
24	NUCLEUS SOFTWARE	15,23,24.9.14	-	-	-	1	3	0	0	0	-	4
25	JINDAL STEEL	16.9.2014	-	2	-	-	-	-	-	4	6	12
26	DYNAMIC DIGITAL	26.9.2014	-	-	-	1	0	-	3	-	-	4
27	HERO MOTOCORP	8,29.10.2014	-	-	-	-	-	-	-	4	-	4
28	ERICSSON	10.10.2014	-	-	-	0	13	-	0	-	-	13
29	DRISHTI-SOFT	15,20,21.10.14	-	-	-	1	-	-	0	-	-	1
30	ORACLE	22, 31.10.14	-	-	-	0	1	-	1	-	-	2
31	THERMAX	30.10.14	-	-	-	-	-	-	-	1	-	1
32	TATA MOTORS	7,8.11.2014	-	-	-	-	-	2	-	8	3	13
33	SAPIENT NITRO	7,14.11.2014	-	-	-	1	1	0	3	-	-	5
34	EXIDE	11.11.2014	-	2	-	-	-	3	-	5	-	10
35	MJUNCTION	12,13.11.2014	-	-	0	0	-	2	-	0	-	2
36	RELIANCE INDUSTRIES	13.11.2014	-	11	-	-	-	-	-	-	-	11
37	RELIANCE JIO INFOCOM	13.11.2014	-	-	-	1	11	-	-	-	-	12
38	DAIMLER INDIA	15.10,13.11.2014	-	-	-	-	-	-	-	4	-	4
39	Honda car	19-21.11.2014	-	0	-	-	-	-	-	3	1	4
40	AMDOCS	08.12.2014	-	-	-	3	3	-	9	-	-	15
41	BELZABAR	09,10.12.2014	-	-	-	0	-	-	0	-	-	0
42	ACC CONCRETE	06.12.2014	-	-	1	-	-	1	-	-	-	2
43	EMAMI	16.12.2014	-	-	-	-	-	0	-	2	-	2
44	Bridge & Roof	17.12.2014	-	-	2	-	-	-	-	2	-	4

45	SMS India	18.12.2014,9.1.15	-	-	0	-	0	-	-	2	-	2
46	Tata Power	28.11,19,20.12.14	-	-	-	-	-	2	-	2	-	4
47	Concept Educations	21.12.2014	-	1	1	-	-	-	-	-	-	2
48	JSW	23.12.2014	-	5	-	-	-	2	-	2	5	14
49	AKASH	23.12.2014	2	-	-	-	-	1	-	1	-	4
50	DRDO	4,22.1.2015	-	-	-	0	0	0	-	0	-	0
51	PUMPSense	8.1.2015	-	-	-	-	-	-	-	1	-	1
52	IDEA CELLULAR	8,9.1.2015	-	-	-	-	3	-	-	-	3	3
53	Goderej &Boyce	20.1.2015	-	-	-	-	-	-	-	2	-	2
54	Voltas	20.1.2015	-	-	-	-	-	6	-	2	-	8
55	Snapdeal	15,21.1.2015	-	-	-	2	-	-	4	-	-	6
56	Linde	27.1.2015	-	0	-	-	-	-	-	-	-	-
57	Tata Hitachi	5.2.2015	-	-	-	-	-	0	-	-	-	-
58	ITD CEMENTATION	9.2.2015	-	-	3	-	-	-	-	-	-	-
59	PCTL	9,10,11.2.2015	-	-	1	-	-	-	-	-	-	-
60	PRADAN	13.2.2015	5	0	0	0	0	0	-	-	-	-
61	ELECTROSTEEL	17.2.2015	-	-	-	-	-	-	-	-	-	-
62	SOKRATI	19,20.2.2015	-	-	1	-	-	-	-	-	-	-

63	HALDIA PETROCHEMICAL	20.2.2015	-	4	-	-	-	2	-	-	-	-
64	HOUSING.COM	25.2.2015	-	-	-	0	-	-	-	-	-	-
65	ELEGANT MARINE SERVICES	26.2,3.3.2015	-	-	-	-	-	-	-	-	-	-
66	YOUNG INDIA	29.1,2.3.2015	-	-	-	-	-	1	-	-	-	-
67	VOITH PAPER	11.3.2015	-	0	-	-	-	-	-	-	-	-
68	HINDALCO	12,14.3.2015	-	-	-	-	-	2	-	-	-	-
69	GreyB Research Private Limited	16,17.2.2015	2	-	-	-	-	-	-	-	-	-
70	RetailOn	09.4.2015	-	-	-	0	-	-	-	-	-	-
71	UTTAM GALVA	16.04.2015	-	0	-	-	-	8	-	-	-	-
72	BENGAL BEVERAGES	18.04.2015	-	-	-	-	-	-	-	-	-	-
73	DELTA STEP	22.4.2015	1	-	-	-	4	-	-	-	-	-
74	JAMIPOL	24.04.2015	-	-	-	-	-	-	-	-	-	-
75	BHUSHAN STEEL	27.04.2015	-	1	-	-	-	3	-	-	-	-
76	CAPITAL VIA	14.05.2015	-	-	-	-	-	-	-	-	-	-
77	XL DYNAMICS	15.05.2015	2	-	0	-	1	-	-	-	-	-
78	Punj Lloyd	21,22.5.2015	-	-	0	-	-	-	-	-	-	-
79	BSSPL	22.5.2015	-	-	-	-	-	-	-	-	-	-
80	BPCL	9.6-10.6.2015	-	2	-	-	-	-	-	3	-	5
81	Anglo Eastern	28.5.2015	-	-	-	-	-	-	-	2	-	2
82	Gujrat Guardian	11.6.2015	-	1	-	-	-	-	-	-	-	1
	Strength		82	63	49	88	89	84	90	128	72	745
	Total Placed		45	45	28	55	74	63	59	98	54	521
	Percentage Placed (in %)		54.9	71.43	57.1	62.5	83.2	75	65.6	76.6	75	69.9
	Total Job Offered		50	58	33	63	105	91	79	133	71	683
	Double Jobs		5	13	5	8	31	28	20	35	17	162

PG-2015 PLACEMENT RECORDS (Up to 18.06.2015)

SL. No	COMPANY	NUMBER OF STUDENTS PLACED (BRANCH WISE)																			
		M.Tech Specialisation														MSC			MCA	MBA	
		ECE		E	M	CIV	CHE	B	MME		C	M	P	C	C	I	E	P			C
		T	V	E	D	SE	CHE	B	IM	ME	S	O	A	C	C	I	E		PH	CH	
EL	LSI	S	PE			T			E	R	ST	SE	SE	ST	ST	Y	E	T			
1	AMAZON	-	-	-	-	-	-	-	-	-	0	-	-	-	0	0	-	-	-	0	-
2	DIRECT I	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	-	-	0	-
3	NOVELL	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	0	0	0	-
4	MICROSOFT	-	-	-	-	0	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-
5	ORACLE	0	0	0	0	0	0	-	-	-	0	0	-	-	0	0	-	-	-	0	0
6	VERITY	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-	-	-	-
7	L&T ECC	-	-	0	1	0	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
8	MU SIGMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
9	TCS	2	7	-	1	-	0	-	-	-	6	1	0	0	7	3	-	-	-	-	23
10	IBM	0	0	0	0	0	0	0	0	0	0	1	1	0	4	1	0	0	0	0	8
11	NRI FINTECH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-
12	PUMPESENSE	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	AKASH INSTITUTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
14	AMDOCS	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	0
15	Concept Education	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-
16	DYNAMIC DIGITAL	0	0	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-
17	SNAPDEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
18	HDFC BANK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
19	Kotak mahindra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
20	Axis bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
21	Capital via	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
22	Nokia siemens	0	0	-	-	-	-	-	-	-	2	-	-	-	3	0	-	-	-	-	-
23	Sankalp Semiconductor	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	GODREJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
25	MUSHKILA SAN DOT COM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
26	Fusion bpo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
27	COCUBES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
28	Naukri.com	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
29	VODAFONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
30	JARO Education	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
31	OSSCUBE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
32	R J SOFTWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
33	Ways2capital.Com	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

34	ING Vysya Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
35	BHUSHAN STEEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
	Students strength	19	17	13	13	19	15	13	5	3	17	11	14	6	23	16	10	14	16	15	78	67
	Total jobs offered	2	8	0	3	0	0	0	0	0	9	3	1	0	14	4	0	0	0	0	37	32
	Percentage(%)	10.5	47.6	0.00	23.08	0.00	0.00	0.00	0.00	0.00	52.94	27.27	7.14	0.00	60.87	25.00	0.00	0	0	0	47.44	47.76

RA* = Result awaited**Summary**

Total number of students placed : 493 (B.Tech-521)

Total number of second job : 126 (B.Tech-162)

Annexure – 11.11 (a) Non-Plan grant

Non-Plan Grant received in 2014-2015 – Rs. 5000.00 Lakhs.

Annexure – 11.11(b) Plan grant

Plan (General) Grant received in 2014-2015 – Rs. 2200.00 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**8.4 Expenditure Position for Last Three Years**

(Rupees in Lakhs)

Plan head Expenditure		Non-Plan head Expenditure	
2011-12	4474.32	2011-12	5171.32
2012-13	4050.00	2012-13	6101.14
2013-14	5058.03	2013-14	7296.61
2014-15 (Unaudited)	2495.34	2014-15	7573.72

Plan head Expenditure in 2014-15 (unaudited) – Rs 2495.34 Lakhs

Non-Plan head Expenditure in 2014-15 (unaudited) – Rs 7573.72 Lakhs (including depreciation)

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

Sl. No.	Name of the Work	Cost of the Work (Rs.)	Name of Agency
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
3	Installation of transmission line from DVC to NIT including receiving station, substations & up gradation of existing substations	6,94,82, 837	CPWD, Kolkata

4	Chemistry Laboratory-cum-Biotechnology Department (Oversight committee)	15,09,26,000	CPWD, Kolkata
5	740 seated Boys' Hostel (Oversight committee)	26,89,94,000	CPWD, Kolkata
6	Academic Block (Oversight committee)	43,49,01,000	CPWD, Kolkata
7	G+8 Faculty Accommodation	22,56,69,789	NBCC, Kolkata
8	Market Complex	8,49,53,953	NBCC, Kolkata
9	Capacity expansion of Hostel No.1	4,90,55,238	DAPL, Kolkata
10	Capacity expansion of Hostel No.2	4,90,55,238	DAPL, Kolkata
11	Capacity expansion of Hostel No.5	4,41,09,689	DAPL, Kolkata
12	International Students Hostel	18,00,00,000	NBCC, Kolkata
13	Renovation of Student Activity Centre(SAC)	4,31,14,999	NBCC, Kolkata

Annexure 11.12(b) Construction work in progress during the year 2014-15(Plan grant projects)

Sl. No.	Name of the Work	Cost of the Work (Rs.)	Status of the work
1	1250 seated Boys' Hostel	129,86,00,000	15 % work completed CPWD, Kolkata
2	500 seated Girls' Hostel	35,17,00,000	5 % work completed CPWD, Kolkata
3	Renovation of Academic Building	27,11,27,578	90 % work completed (NBCC, Kolkata)
4	1500 capacity Auditorium	26,78,46,000	40 % work completed (CPWD, Kolkata)
5	VIP Guest House	17,99,67,000	35 % work completed (CPWD, Kolkata)
6	Interior decoration of S.N.Ray Memorial Building	9,40,00,000	80 % work completed . (NBCC, Kolkata)
7	Underground Water Reservoir	85,68,495	20 % work completed (DAPL, Kolkata)
8	Roof treatment for Faculty and Staff qtrs	59,64,000	Work in progress. 50% works completed. Work hampered due to paucity of fund. (CPWD, Kolkata)
9	C/o Subsidiary drainage system of the campus	38,16,000	Work in progress. 60% works completed. Work hampered due to paucity of fund. (CPWD, Kolkata)
10	C/o proper fencing of the Residential Hostels.	1,10,27,900	Work in progress (CPWD, Kolkata)
11	Demolition of old staff Quarters in phases and construction of Multi storied composite staff Quarter Buildings.	Estimated Amount still awaited	There is ambiguity regarding no. of quarters. (CPWD, Kolkata)
12	Proposal for demolition of old DS-type & B-type Faculty Quarters in phases and construction of new Multi-storied Faculty Quarters Buildings with modern facilities	77,61,00,000	Sanctation to given depending on availability of Plan-Grant. (CPWD, Kolkata)
13	Proposal for one Multi-storied Academic Building for four Academic Departments	-----	Requirements of various Deptt. Awaited. (CPWD, Kolkata)
14	C/o one Multi-storied Utility Building near main entry gate of NIT Durgapur	-----	Requirements of various Deptt. Awaited. (CPWD, Kolkata)
15	Raising the height of peripheral boundary wall of NIT Durgapur campus & strengthening of security aspect.	13,69,00,000	Sanctation to given depending on availability of Plan-Grant. (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, Food Biotechnology
Chemical Engineering	Heat Transfer Lab, Mass Transfer Lab, Fluid Flow Lab, Mechanical Operations Lab, Environmental and Membrane Technology Lab, Computing Lab, Energy Lab, Adsorption Lab, Chemical & Bio-Chemical Reaction. Engg. Lab, Process Control Lab, Combustion Engineering Lab, Multi-phase Flow Lab, Process Modelling & Simulation Lab, Central Research Laboratory, Process Equipment Design Lab
Chemistry	Junior Chemistry Laboratory, Senior Chemistry Laboratory, Organic and Inorganic Synthetic Research Laboratory, Environmental and Corrosion Laboratory, Molecular Modelling Laboratory
Civil Engineering	Concrete and Structure Laboratory, Highway Engineering Laboratory, Surveying Laboratory, Environmental Engineering Laboratory, Soil Mechanics Laboratory, Water Resources Engineering Laboratory, Exciter and FFT 199nalyser for Earthquake Laboratory
Computer Applications	Advanced Networking Laboratory, Advanced Software Engineering Laboratory, DBMS Laboratory(Shared with Dept. of CSE), Microcomputer and VLSI LabLaboratory, Internet Laboratory(Shared with Dept. of CSE), Programming Laboratory
Computer Science & Engineering	Project Laboratory, Programming Laboratory-I, Programming Laboratory-II, DBMS Laboratory, Faculty Laboratory, Hardware Laboratory, Networking Laboratory, Computer Vision and Graphics Laboratory
Earth and Environmental Studies	Environmental Laboratory, Research Laboratory, Computer Laboratory, Geology Laboratory, Analytical laboratory
Electrical Engineering	Electrical Machines & Drives Laboratory, Power System Laboratories (I & II), 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
Electronics & Communication Engineering	Electronics Circuit Lab, Network Lab, VLSI Lab, Digital Electronics Lab, Communication Lab, Industrial Electronics Lab, Instrumentation Lab, Microprocessor Lab, Computer architecture Lab, Microwave Lab, PCB Lab, Microwave and Antenna Research Laboratory, Microwave Component Design Laboratory,Advanced Communication Lab (for PG)
Humanities & Social Sciences	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).
Information Technology	Systems and Networking Laboratory, Application Laboratory, Embedded Systems Laboratory, Digital Signal Processing and Microprocessor Laboratory, Communication Laboratory, Project and Research Laboratory.
Mathematics	Computer Laboratory
Mechanical Engineering	CAD /CAM Laboratory, CFD Laboratory, Heat Power Laboratory, Thermal Energy Laboratory, Simulation Laboratory, Robotics & AI Laboratory, Manufacturing Science Laboratory, Fluid Mechanics & Hydraulic Machines Laboratory, Metrology Laboratory, Machine Computation & Computer Graphics Laboratory, Automobile Laboratory, Machine Dynamics Laboratory
Metallurgical & Materials Engineering	Computer Application in Metallurgical Process Laboratory for UG, Computer Application in Metallurgical Process Laboratory for PG, Chemical Analysis Laboratory, Foundry Laboratory, Heat Treatment Laboratory, Mechanical Testing Laboratory, Metallography and Phase Transformation Laboratory, Thermodynamics of Materials Laboratory, Process Metallurgy Laboratory, Electrometallurgy and Corrosion Laboratory, X-ray Diffraction and Thin Film Laboratory, Nanomaterials and Composites Laboratory.
Physics	Nanoscience Laboratory, Materials Science Laboratory, X-ray Diffraction Laboratory, Low Temperature Characterization Laboratory, Laser & Optoelectronics Laboratory, Electronics Laboratory, Nuclear Physics Laboratory, Carbon Nanotechnology Laboratory, Optical sensor laboratory
Central Instrumentation	Scanning Electron Microscope with EDS, X-Ray Diffractometer, Nd:YAG Laser Unit, Spectrum Analyzer

Facility	
Helium & Geothermal Project	Geochemical Monitoring Laboratories at Bakreswar, WB, Tatta Pani, J & K, Baratang, A&N and Tantloi, Jharkhand with identical equipment set up such as Gas Chromatograph, Alpha Guard radon monitor, Barasol radon monitor, rad 7 radon monitor, gamma tracer etc.

Annexure-11.14 Technical Education Quality Improvement Programme (TEQIP)

Life time of TEQIP-II is extended upto October 2016 to achieve the project target as mentioned in Institutional development proposal. A large number of equipment worth Rs. 358.24 lakhs has been procured by different departments to support the postgraduate and research programmes. 22 research scholars are pursuing doctoral research with fellowship under TEQIP II. Total expenditure under different activities is Rs 727.73 lakhs.

A Rs 5-crore Centre of Excellence on "Advanced Materials", a multi-disciplinary research centre with participation from Departments of Physics and Metallurgical Engineering, has been approved in TEQIP-II. COE has initiated the different activities and the expenditure incurred is Rs. 38.4 lakhs. 6 research scholars are pursuing doctoral research with fellowship under COE of TEQIP II.

Institute's performance with regard to different activities of TEQIP II quite satisfactory.

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Centre of excellence in Advanced Materials	Chakraborty, AK and Mondal, DK (MME) (joint PIs)	MHRD	5 CRORES	2013

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 UK, UAE, Singapre, etc. apart from various cities and towns in the country. The 15th Annual Global Meet of NITDAA was held in the Institute campus on January 11, 2015. 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 2014-15

Department of Biotechnology

Author	Title of the book	Publisher	Date of Publication
Sar, P., Paul, D., Sarkar, A., Bharadwaj, R. and Kazy, S.K.	Microbiology of arsenic contaminated groundwater" in "Microbiology for Minerals, Metals, Materials and Environment", Eds Abhilash, B.D. Pandey and K.A. Natarajan, pp. 478 – 525. ISBN 13:978-1-4822-5729-8	CRC press, Boca Raton, FL	January, 2015
Shyamsunder, P., Verma, R.S., Mukhopadhyay, S.S. and Lyakhovich, A.	Involvement of Mitochondria in the Pathology of Fanconin Anemia, ISBN:978-1-63482-297-8	Nova Science Publishers, Inc. New York, USA	2015
Dey, A., Basak, B., Chakraborty, S., and Bhunia, B.	Industrial and Environmental Biotechnology I. Microbial Remediation of Recalcitrant Aromatic compound II. A review on application of Microbial protease in Bioremediation III. Biosorption of Anionic dye by Dietzia sp. Isolated from textile industry effluent	Studium Press India Pvt. LTD.	2014

Department Of Chemical Engineering

Author	Title of the book	Publisher	Date of Publication
Prof.Parimal Pal	Groundwater Arsenic Remediation : Treatment Technology & Scale Up	ELSEVIER	2015
Prof.T.Kumar	Applications of Microemulsions in Enhanced Oil Recovery	LAP Lambert Academic Publishing	2014

Department of Chemistry

Author	Title of the book	Publisher	Date of Publication
Adhikari K., Chaudhuri, S., Dutta, S., Saha R.N.*	Environment Pollution and Protection	Narosa	2015

* Repeated in other departments

Department of Computer Applications

Author	Title of the book	Publisher	Date of Publication
Roy R., Changder S.	Object based Image Steganography with pixel polygon tracing (Smart Innovation, Systems and Technologies, Vol 31)	Springer India	January 2015
Sarkar A., Changder S., Mandal J.K.	Directional Multi-scaled Fusion Based Median Filter for Removal of RVIN(Smart Innovation, Systems and Technologies, Vol 31)	Springer India	January 2015

Department of Computer Science and Engineering

Author	Title of the book	Publisher	Date of Publication
Das, S., Pal, T., Kar, S., Sathapathi, S., Mondal, J.K.	Proceedings of the International Conference on "Frontiers of Intelligent Computing: Theory and Applications (FICTA)"	Springer (India) Pvt. Ltd.	November, 2015
Kisku, D.R., Gupta, P., Sing. J.K., Li, W.	Handbook of Research on Identity Management and Authentication for Homeland Security	IGI Global, USA	December, 2015
Mandal, J.K., Mukhopadhyay, S., Pal, T.	Handbook of Research on Natural Computing for Optimization Problems	IGI Global (formerly Idea Group Inc.), Pensylvenia, USA	November, 2015

Department of Earth and Environmental Studies

Author	Title of the book	Publisher	Date of Publication
K. Adhikari S. Chaudhury S. Dutta R. Saha	Environment Pollution and Protection	Narosa Publishing House	2015

Department of Electronics & Communication Engineering

Author	Title of the book	Publisher	Date of Publication
Nallagonda S., Dhar Roy S., Kundu S., Ferrari G., Raheli R.	Chapter contribution titled: Cooperative Spectrum Sensing with Censoring of Cognitive Radios in Fading Channel under Majority Logic Fusion, Editors F. Bader and M. G. Di Benedetto, book name: Cognitive Communications and Cooperative HetNet Coexistence, chapter 7, pages 133-162	Springer, Switzerland	February, 2014
Nallagonda S., Dhar Roy S., Kundu S., Ferrari G., Raheli R.	Chapter contribution titled: Cooperative spectrum sensing with censoring of cognitive radios and MRC based fusion in fading and shadowing channels, Editors N. Kaabouch and W. Chen Hu, book name: Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Access and Management, chapter 2, pages 39-68,	IGI Global	Oct, 2014
Saha, S., Mukhopadhyay, A. K., Bhattacharjee, A. K.	QoS and Mobility Management Issues on Next Generation Mobile WiMAX Networks”, Chapter 16, A volume in the Advances in Wireless Technologies and Telecommunication (AWTT) Book Series	Information Science REFERENCE - An Imprint of IGI Global.	2014

Department of Mathematics

Author	Title of the book	Publisher	Date of Publication
Kar S	Facets of Uncertainties and Applications	Springer	ISBN 978-81-3222-300-9, 2015

Department of Mechanical Engineering

Author	Title of the book	Publisher	Date of Publication
Pramanick, A. K.	The Nature of Motive Force	Springer	August, 2014

Department of Physics

Author	Title of the book	Publisher	Date of Publication
Kumbhakar, P. and Mondal, M. K. (Co-ordinators/Editors)	“Fundamentals of Photonics and Optoelectronics” Proceedings of a Short Term Course on FuPO-2014” with ISBN No: 978-93-83842-48-3	Excel India Publishers, New Delhi	May, 2014

Annexure 11.16 (b) i. Reviews of manuscripts for publication in journals during 2014-15**Department of Biotechnology**

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bhattacharjee, Ashish	Journal of Lipid Research	ASBMB	November, 2014
Bhattacharjee, Ashish	Oxidative Medicine and Cellular Longevity	Hindawi	December, 2014

Department Of Chemical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Ghanta K C	Separation Science and Technology	Taylor & Francis	July 2014
Ghanta K C	Industrial & Engineering Chemistry Research	ACS Publications	August 2014
Ghanta K C	Neural Computing and Applications	Springer	Sept. 2014
Ghanta K C	Powder Technology	Elsevier	Feb. 2015
Gupta P	Bioresource Technology	Elsevier	April 2014
Gupta P	Chemical Engineering Journal	Elsevier	May 2014
Gupta P	Energy & Fuels	ACS Paragon	June 2014
Gupta P	Energy for Sustainable Development		Devember 2014
Gupta P	Fuel	Elsevier	July 2014
Gupta P	Chemical Engineering Journal	Elsevier	July 2014
Halder G N	Journal of Environmental Chemical Engg	Elsevier	April 2015
Halder G N	Separation and Purification Technology	Elsevier	September 2014
Halder G N	Chemical Engg Journal	Elsevier	August 2014
Halder G N	Desalination and Water Treatment	Taylor and Francis	February 2015
Halder G N	Biofuels	Taylor and Francis	March 2015
Halder G N	Bioremediation	Taylor and Francis	April 2015
Halder G N	Environmental Progress and Sustainable Energy	Wiley	March 2015
Halder G N	Canadian Journal of Chemical Engg	Wiley	January 2015
Narayanan C.M.	Energy Conversion and Management	Elsevier	October, 2014
Narayanan C.M.	British Journal of Biotechnology	Sciencedomain International, UK	December, 2014
Pal Parimal	Journal of Ecotoxicology and Environmental safety	Elsevier	31.8.2014
Pal Parimal	Biochemical Engineering Journal	Elsevier Sc.	10.4.2014
Pal Parimal	Biochemical Engineering Journal	Elsevier Sc.	26.12..2014
Pal Parimal	J. Cleaner Production	Elsevier Sc.	16.10..2014
Pal Parimal	Journal of Hazardous Materials	ELSEVIER	23.2.2015
Pal Parimal	Process Biochemistry,	Elsevier Science	1.11.14
Pal Parimal	J. Cleaner Production	Elsevier Sc.	1.4.2014

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Pal Parimal	Water Environment Research	Wat. Env. Federation USA	9.9.2014
Pal Parimal	Polymer Bulletin, Springer	SPRINGER	21.12.2015
Pal Parimal	Bioresource Technology	ELSEVIER	31.1.2015
Pal Parimal	Royal Society of Chemistry	RSC	31.8.2014
Pal Parimal	Water Science & Technology	Elsevier	16.11.2014
Pal Parimal	Journal of Env. Chemical Engg.	ELSEVIER	26.6.2014
Pal Parimal	Journal of Env. Chemical Engg.	ELSEVIER	9.9..2014
Pal Parimal	J.Cleaner Production	Elsevier Sc.	22.9.2014
Pal Parimal	Journal of Membrane Science	Elsevier Sc.	09.11.2014
Pal Parimal	Bioresource Technology	ELSEVIER	5.3..2015
Pal Parimal	Journal of Membrane Sc.	Elsevier Sc.	26.1.2015
Pal Parimal	Journal of Cleaner Production	Elsevier Sc.	9.5.2014
Pal Parimal	Biochemical Engineering Journal	Elsevier Sc.	10.4.2014
Pal Parimal	Chemical Engineering & Processing: Process Intensification	Elsevier	12.11.2014
Pal Parimal	Chemical Engineering & Processing: Process Intensification	Elsevier	7.12..2014
Pal Parimal	Chemical Engineering & Processing: Process Intensification	Elsevier	23.1..2015
Pal Parimal	Environmental Technology	SPRINGER	1.1.2015
Pal Parimal	Separation & Purification Review	Taylor & Francis	23.2.2015
Pal Parimal	Biochemical Engineering Journal	Elsevier Sc.	10.4.2014
Pal Parimal	Chemical Engineering Science ,	Elsevier	15.9.2014
Pal Parimal	Chemical Engineering Science	Elsevier	30.11.2014
Pal Parimal	Biochemical Engineering Journal	Elsevier Sc.	18.12..2014
Paruya, S.	Chemical Engineering Science	Elsevier	August 16, 2014
Paruya, S.	Annals of Nuclear Energy	Elsevier	January 10, 2015

Department of Chemistry

Reviewer	Name of the Journal	Publisher	Date
Mukhopadhyay B.P.	Journal of Biomolecular Structure and Dynamics	Taylor and Francis	Oct, 2014
Panja S.S.	Sensors and Actuators B Chemical	Elsevier	01.07.2014

Reviewer	Name of the Journal	Publisher	Date
Panja S.S.	Sensors and Actuators B Chemical	Elsevier	21.07.2014
Panja S.S.	Sensors and Actuators B Chemical	Elsevier	05.11.2014
Panja S.S.	Sensors and Actuators B Chemical	Elsevier	17.12.2014
Sukul D.	RSC Advances	Royal society of Chemistry	March 13, 2015
Sukul D.	RSC Advances	Royal society of Chemistry	February13, 2015
Sukul D.	RSC Advances	Royal society of Chemistry	December 16, 2014
Sukul D.	Environmental Engineering and Management Journal	Gheorghe Asachi Technical University of Iasi, Romania	December 2, 2014
Sukul D.	Journal of Hazardous material	Elsevier	February 13, 2015

Department of Civil Engineering

Reviewer	Name of the Journal	Publisher	Date(of Final Review)
Samanta, A. K.	Journal of The Institution of Engineers (India): Series A. (Paper ID: IEIA-D-14-00105)	Springer	July 2014
Topdar, P.	Journal of The Institution of Engineers (India): Series A" (manuscript ID: IEIA_D14-00098)	Springer	August 2014

Department of Earth and Environmental Studies

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Adhikari K.	Environmental Monitoring and Assessment	Springer	September, 2014

Department of Computer Science Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
De, T.	Photonic Network Communications	Springer	May, 2014
Kisku, D.R.	IET Image Processing	IET, U.K.	March, 2015
Kisku, D.R.	Computers & Electrical Engineering	Elsevier	March, 2015
Kisku, D.R.	Human-centric Computing and Information Sciences	Springer	March, 2015
Pal, T.	Materials and Manufacturing Processes	Taylor and Francis	July, 2014
Sarker, G.	Journal of The Institution of Engineers (India) Series B	Springer and IE(I)	March 2015
Sen, B.	Microelectronics	Elsevier	March, 2015
Sen, B.	Circuit, System & Computers	WSPC	December, 2014
Sen, B.	IET CDT	IET, UK	February, 2015

Department of Electrical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Acharjee P.	Electrical Power & Energy System	Elsevier	April, 2014 & December 2014
Acharjee P.	Electrical Power System Research	Elsevier	June, 2014
Acharjee P.	Applied Soft-computing Technique	Elsevier	August 2014
Acharjee P.	Transaction on Power System	IEEE	January, 2015
Banerjee S	IEEE Transaction on Industrial Electronics	IEEE(USA)	01.05.2014
Banerjee S	Asian Journal of Control	WILEY-BLACKWELL (UK)	03.05.2015
Banerjee S	IEEE Transaction on Industrial Electronics	IEEE(USA)	29.07.2015
Mahato S. N	Electric Power Components and Systems	Taylor & Francis	04.01.2015
Mahato S. N	Electric Power Components and Systems	Taylor & Francis	21.02.2015
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	01.06.2014
Saha T. K.	IEEE Transactions on Industrial Electronics	IEEE	10.06.2014
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	04.07.2014
Saha T. K.	IEEE Transactions on Industrial Electronics	IEEE	13.08.2014
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	15.10.2014
Saha T. K.	IEEE Transactions on Industrial Electronics	IEEE	03.11.2014
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	12.11.2014
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	18.11.2014
Saha T. K.	IEEE Transactions on Industrial Electronics	IEEE	19.12.2014
Saha T. K.	IEEE Transactions on Sustainable Energy	IEEE	24.01.2015

Department of Electronics & Communication Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Dhar Roy, S.	IJCS	Wiley	10 March,2015
Dhar Roy, S.	IET Communications		25Dec,2014; 19Oct,2014;
Dhar Roy, S.	International Journal of Distributed Sensor Networks	Inderscience	10March,2015
Dhar Roy, S.	Advances in Electrical Engineering	Hindawi	18Dec,2014
Dhar Roy, S.	Computers and Electrical Engineering	Elsevier	14Oct,2014
Kundu, S.	IET Wireless Sensor systems	IEEE	March 2014
Kundu, S.	IET Communication,	IEEE	Jan 2015
Kundu, S.	Egyptian Informatics Journal	Elsevier	Sept, 2014
Kundu, S.	Journal on Computers & Electrical Engineering	Elsevier	Sept, 2014

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Dhar Roy, S.	IJCS	Wiley	10 March,2015
Dhar Roy, S.	IET Communications		25Dec,2014; 19Oct,2014;
Dhar Roy, S.	International Journal of Distributed Sensor Networks	Inderscience	10March,2015
Dhar Roy, S.	Advances in Electrical Engineering	Hindawi	18Dec,2014
Dhar Roy, S.	Computers and Electrical Engineering	Elsevier	14Oct,2014
Kundu, S.	IET Wireless Sensor systems	IEEE	March 2014
Kundu, S.	IET Communication,	IEEE	Jan 2015
Kundu, S.	Egyptian Informatics Journal	Elsevier	Sept, 2014
Ghatak, R.	IEEE Transaction on Antenna and Propagation,	IEEE/IET	May 2014
Ghatak, R.	IEEE Antennas and Wireless Propagation Letters	IEEE/IET	August 2014
Ghatak, R.	IET Microwave Antennas and Propagation	IEEE/IET	September 2014
Ghatak, R.	PIER	The Electromagnetics Academy	November 2014
Ghatak, R.	AEUE International journal of Electronics and Communication	Elsevier	December 2014
Ghatak, R.	RFMICAE	Wiley	Feb 2015
Ghatak, R.	JEMWA	Taylor Francis	Mar 2015
Mahapatra, R.	Applied Physics Letter	American Institute of Physics	March 2015
Mahapatra, R.	Solid State Technology	Institute of Physics	June 2014
Mandal, S. K.	Progress in Electromagnetic Research (PIER)	The Electromagnetics Academy	March 2015

Department of Information Technology

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Mitra, D.	Journal of Electronic Testing	Springer	March 9, 2015
Mitra, D.	Journal of Electronic Testing	Springer	August 25, 2014
Mitra, D.	Journal of Knowledge Management	Emerald	September 10, 2014
Nandi, D.	Journal of the Institution of Engineers: Series B	Springer	March, 2015

Department of Management Studies:

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Prof.M.Roy	Clean Tech Env.Policy	Springer	27.6.2014
Prof.M.Roy	Clean Tech & EnV. Policy	Springer	21.1.2015
Prof.M.Roy	Water Res. Management	Elsevier	19.2.2015

Department of Mathematics

Reviewer	Name of the Journal	Publisher	Date
Pal, A.	Computing & Combinatorics	Springer	December, 2014
Pal, A.	Mathematical Programming Series A	Springer	April, 2014
Pal, A.	Journal of Applied mathematics and Computing	National Academy Science Letters	January, 2015
Pal, A.	Annals of Fuzzy Mathematics and Informatics	Kyung Moon Sa Co.	January, 2015
Pal, A.	Mathematical Programming Series A	Springer	October, 2014
Kar, S.	IEEE Transactions on Fuzzy Systems	IEEE Press	December, 2014
Kar, S.	Journal of Uncertainty Analysis and Applications	Springer	March, 2015

Department of Mechanical Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Banerjee N.	International Journal of Heavy Vehicle Systems(IJHVS)	Inderscience	September 2014
Banerjee N.	Journal of the Institution of Engineers (India): Series C	Springer	July 2014
Banerjee N.	Mechanism and Machine Theory	Elsevier	October 2014
Layek A.	Renewable Energy	Pergamon-Elsevier Science Ltd	May 2014
Layek A.	Solar Energy	Pergamon-Elsevier Science Ltd	May 2015
Pramanick, A. K.	International Journal of Heat and Mass Transfer	Elsevier	August 2014

Department of Metallurgical & Materials Engineering

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bera S.	Surface Engineering	Maney Publisher	April 2014
Bera S.	Surface Engineering	Maney Publisher	May 2014
Bera S.	High Temperature Materials and Processes	De Gruyter	September 2014
K.. S. Ghosh.	Materials Science and Engineering C	Elsevier Publication	20
K.. S. Ghosh	Corrosion Science	Elsevier Publication	April, 2014
K.. S. Ghosh	Journal of Engineering Manufacture	Springer	November, 2014
K.. S. Ghosh	Journal of Saudi Chemical Society		October 2014
K.. S. Ghosh	Transaction, Nonferrous Metal Society of China	Elsevier Publication	Jan, 2015
K.. S. Ghosh	Transaction, Indian Institute of Metals	Springer	No. of Papers Reviewed: 03
D Mandal	Materials Characterisation	Elsevier	Sept 14
M. M. Ghosh	Microfluidics and Nanofluidics,	Springer	Feb., 2015
M. M. Ghosh	Proceedings of the First Thermal and Fluids Engineering Summer Conference, 2015 (New York, USA)	ASTFE	Apr., 2015

Department of Physics

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Kumbhakar, P.	J. Nanoparticle Research	Springer	April 5, 2014
Kumbhakar, P.	Appl. Surf. Sc.	Elsevier	April 19, 2014
Kumbhakar, P.	J Alloy and Compounds	Elsevier	April 22, 2014
Kumbhakar, P.	J. Luminescence	Elsevier	April 29, 2014
Kumbhakar, P.	RSC Advances	Royal Soc. Of Chem., London	May 19, 2014
Kumbhakar, P.	Indian J Physics	Springer & IACS	May 23, 2014
Kumbhakar, P.	JOSA-B	OSA, USA	July 23, 2014
Kumbhakar, P.	Mat. Sc. and Engg. B	Elsevier	August 11, 2014
Kumbhakar, P.	Indian J Physics	Springer & IACS	August 31, 2014
Kumbhakar, P.	Int. J. Nanoscience	Taylor & Francis	Sept. 8, 2014
Kumbhakar, P.	J Alloy and Compounds	Elsevier	Sept. 10, 2014
Kumbhakar, P.	Physics Status Solidi-Rapid Research Letters	Wiley	Oct. 8, 2014
Kumbhakar, P.	RSC Advances	Royal Soc. Of Chem., London	Oct 8, 2014
Kumbhakar, P.	Indian J Physics	Springer & IACS	March 28, 2015
Mandal M.K	Nonlinear dynamics	Springer	November 2014
Mandal M.K	Int. J. Electronics	Taylor & Francis	September 2014
Meikap, A K.	Materials Research Bulletin	Elsevier	Mar-15
Meikap, A K.	RSC Advances	Royal Soc. of Chem.	Mar-15
Meikap, A K	Thin Solid Films	Elsevier	Mar-15
Meikap, A K	Current Science	IISc Bangalore	Feb-15
Meikap, A K	Materials Research Bulletin	Elsevier	Feb-15
Meikap, A K	RSC Advances	Royal Soc. of Chem	Feb-15
Meikap, A K	Solid State Science	Elsevier	Feb-15
Meikap, A K	Materials Chem. Phys.	Elsevier	Jan-15
Meikap, A K	Thin Solid Films	Elsevier	Dec-14
Meikap, A K	Materials Chem. Phys.	Elsevier	Dec-14
Meikap, A K	Polymer Composites	John Wiley & Sons	Dec-14
Mondal A	Journal of Alloys and Compounds	Elsevier	April 2015
Mondal A	Optics Communication	Elsevier.	April 2015
Mondal A	Plasmonics	Springer	April 2015
Mondal A	Material Science & Engineering B	Elsevier	April 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Kumbhakar, P.	J. Nanoparticle Research	Springer	April 5, 2014
Kumbhakar, P.	Appl. Surf. Sc.	Elsevier	April 19, 2014
Mondal A	IEEE Electron Device Letters	IEEE	July 2014
Mondal A	Materials Letters	Elsevier	June 2014
Mondal A	Journal of applied physics	AIP	December, 2014
Sahoo S.	Asian Journal of Physics	Anita Publications, Delhi, India & New York, USA	April, 2014
Sahoo S.	Journal of NanoScience, NanoEngineering & Applications	Consortium eLearning Network Private Ltd, Noida, India.	August, 2014
Sahoo S.	Journal of Applied Physical Science International	International Knowledge Press, UK	March 2015

Annexure 11.16 (b).ii: Reviews of books during 2014-15

Department of Chemical Engineering

Reviewer	Name and author of the book	Publisher	Date
Narayanan C.M.	Industrial Safety	Tata McGraw Hill	February, 2014

Department of Computer Science and Engineering (*sample*)

Reviewer	Name and author of the book	Publisher	Date
Kisku, D.R.	Design and Analysis of Algorithms	McGraw Hill, India	February 2015

Department of Electronics & Communication Engineering

Reviewer	Name and author of the book	Publisher	Date
Ghatak R	Microwave Engineering	Oxford University Press	May 2014
Dhar Roy, S.	Signals and Systems	Cambridge University Press	September, 2014
Majumder, A.	Telecommunication Switching Networks	Oxford University Press	January, 2015.

Department of Information Technology

Reviewer	Name and author of the book	Publisher	Date
Mukhopadhyay, S.	Design Analysis and Algorithms	McGraw Hill	February 4, 2015

Department of Mechanical Engineering

Reviewer	Name and author of the book	Publisher	Date
Banerjee N.	Design of Machine Elements , 4/e by Bhandari,	McGraw Hill Education	October 2014

Department of Metallurgical and Materials Engineering

Evaluator/examiner	Project Proposal of SERB, DST, New Delhi	Date
K.. S. Ghosh.	Development of method for improving stress corrosion cracking (SCC) resistance of friction stir welded joint of age hardenable AA7075 alloy	August 2014

Department of Physics

Reviewer	Name and author of the book	Publisher	Date
Sahoo S.	Engineering Physics	Oxford University Press	14th May, 2014 – 11th June, 14

Annexure 11.16 (c). Participation in National Committees/ visits during 2014-15**Department of Biotechnology**

Name of the faculty	Name of the committee	Place of visit	Date
Prof. Chattopadhyay S.	Task Force, DBT, Govt. of India	DBT, New Delhi	2011-till date

Department of Chemical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Prof. Kumar T.	AICTE ERC	Kolkata	27.05.2014
Prof. Kumar T.	SPFU Steering Committee	Kolkata	08.07.2014
Prof. Kumar T.	SPFU Steering Committee	Kolkata	21.1.2015
Prof. Kumar T.	AICTE ERC	Kolkata	18.03.2015
Prof. Kumar T.	UGC-AICTE Visiting Committee	Oriental University, Indore	10.06.2014
Prof. Kumar T.	Advisory Committee, International Conference on Petroleum Engineering and Science 2014	IIT Madras	03-05 December 2014

Department of Mechanical Engineering

Name of the faculty	Name of the committee	Place of visit	Date
Banerjee N.	Expert Member in the UGC team as AICTE Nominee visiting Amity University, Gwalior, MP, for assessment of infrastructure facility.	Amity University, Gwalior, Maharajapura, MP	08-09 April 2015
Banerjee N.	Expert Member in the UGC team as AICTE Nominee visiting Noida International University, Greater Noida, UP,	Noida International University, Greater Noida, UP	30-31 Feb 2015

Name of the faculty	Name of the committee	Place of visit	Date
	for assessment of infrastructure facility.		

Annexure 11.16 (d): Invited Examiners/ Paper-setters/ Board of Studies during 2014-15

Department of Biotechnology

Name of the faculty	Name of the examination	University/Institute	Date
Chaudhuri, S.	B.Tech	Integral University Lucknow	October 2014
Chaudhuri, S.	Ph.D. thesis evaluation	Jadavpur University	April 2014
Dutta, D.	Paper setter for M. Sc theory paper – Biomolecules	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	October 2014
Dutta, D.	Paper setter for M. Sc theory paper – Molecular Biology	Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	October 2014
Dutta, D.	Paper setter for B.tech theory paper – Biochemistry	Intergral University, Lucknow	October 2014
Mukhopadhyay, Sudit S.	M.Sc practical	Burdwan University	October 2014
Dey, A.	B.Tech	Integral University, Lucknow	Sept, 2014
Dey, A.	M.Tech	NIT, Jalandhar	June, 2014

Department Of Chemical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Prof.Gupta P	PhD thesis evaluation & viva-voce	NIT Warangal	April 21, 2014
Prof.Halder G N	B. Tech Petroleum Engg	ISM Dhanbad	October 2014
Prof.Narayanan C.M.	AMIE	Institution of Engineers	July, 2014 January, 2015
Prof.Kumar.T	BOS	Dibrugarh University	30 May 2014
Prof.Kumar.T	Doctoral Committee	PDPU Gandhinagar	29 November 2014
Prof.Kumar.T	PhD Pre submission	NIT Jalandhar	30 July 2014
Prof.Pal P	PhD examiner	Jadavpur University	May 2014

Department of Chemistry

Name of the faculty	Name of the examination	University/Institute	Date
Adhikar U.	Paper Setter, CH-103, PG. Sem-I, 2014	Sidho-Kanho-Birsha University	29.10.2014
Adhikari U	Question moderator PG, Sem-IV, 2014	Sidho-Kanho-Birsha University	8.05.2014
Adhikari U	External examiner, CH-812, M.Sc., Sem-II, 2014	Visva-Bharati University	30.06.2014
Adhikari U.	Member of Board of Examiner, MCM-101,	The University of Burdwan	26.02.2015
Chakrabarty J.	Practical examination, B.Sc. (Hons)	Visva Bharati University	22.05. 2014
Chakrabarty J.	Five Year Integrated M.Sc. Practical examination	Visva Bharati University	05.08.2014
Chakrabarty J.	Five Year Integrated M.Sc. in Physical Science Practical examination	Visva Bharati University	04.08.2014

Name of the faculty	Name of the examination	University/Institute	Date
Chakrabarty J.	subject expert for assessment of the research for pre-submission of the Ph.D. thesis	Department of Life Science & Biotechnology, Jadavpur University	21.08.2014
Chakrabarty J.	Paper setter M.Sc.	Visva Bharati University	November, 2014
Chakrabarty J.	Five Year Integrated M.Sc. Practical examination	Visva Bharati University	04- 06.12.2014
Chakrabarty J.	Practical examination, M.Sc.	Visva Bharati University	29.12. 2014
Moi, S.C.	Ph.D. thesis	University of Madras	17/09/2014
Moi, S.C.	Ph.D. thesis	University of Madras	14/12/2014
Moi, S.C.	Ph.D. thesis	University of Madras	09/01/2015
Mukhopadhyay B.P.	M.Sc. Biotechnology	The University of Burdwan	June 2014
Mukhopadhyay B.P	M.Sc. Biotechnology (Question moderator)	The University of Burdwan	Jan 2015
Saha R.N.	M.Sc., Practical Examination, ENVIRON-206	Burdwan University	27.08.14

Department of Civil Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Datta A.K.	AMIIW Examination	The Indian Institute of Welding	Winter, 2014 Summer, 2015

Department of Computer Applications

Name of the faculty	Name of the examination	University/Institute	Date
Dr. Suvrojit Das	M.Tech	Jadavpur University, Kolkata	9 th June, 2014

Department of Computer Science and Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Pal, T.	Question Setting & Moderation for the subject of Computer Science & Applications for 18 th State Eligible Test (SET-2014) for the post of Assistant Professors and Librarians in Universities and Colleges of West Bengal	Office of the Commission at Purta Bhavan, Salt Lake, Kol-91	9 th , 10 th & 11 th November, 2014
Pal, T.	Confidential Meeting regarding 18 th State Eligible Test (SET-2014)	Office of the Commission at Purta Bhavan, Salt Lake, Kol-91	2 nd – 4 th February, 2015
Pal, T.	Member of the Board of Post-Graduate Studies in Computer Science	University of Burdwan, Rajbati, Burdwan 713104	from February, 2015
Pal, T.	Moderation Question Paper of CSE Dept.	NIT, Agartala	April 26-27, 2014
Pal, T.	Moderation of Question Papers of BCA and Computer Science in connection with UG Part-I/II Examination, 2015	Sidho-Kanho-Birsa University, Purulia: 723104, West Bengal	March 26, 2015
Sarker, G.	AMIE Section A & B of IE(I)	Institute of Engineers (India)	March 2015

Department of Earth and Environmental Studies

Name of the faculty	Name of the examination	University/Institute	Date
Adhikari Kalyan	M.Sc.	Univ. Of Burdwan	December 2014
Gangopadhyay A	M.Sc.	Univ. Of Burdwan	December 2014

Department of Electrical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Banerjee S	Grand Viva, BCET	WBUT	10.05.2014
Banerjee S	Assessor for faculty members	JIS, Kalyani	03.04.2014
Banerjee S	M.Tech viva-voce	IIT Kharagpur	12.05.2014
Banerjee S	Doctoral committee	IEST, Shibpur	18.07.2014
Banerjee S	Assessor for faculty members	NIT Agarpara	27.01.2015
Banerjee S	IES Examination	UPSC	27-29 March,2015
Banerjee S	PhD Viva-voce	CSIR-CMERI	17.03.2015
Banerjee S	M.Tech viva-voce	NIT Rurkela	26.05.2014
Barman J C.	External Examiner of The GKCIET, Malda	GKCIET, Malda	July, 2014
Barman J C.	External Examiner of The Institution's Examination	The Institute of Engineers(India)	August, 2014
Barman J C.	External Examiner of The GKCIET, Malda	GKCIET, Malda	July, 2014

Department of Electronics & Communication Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Kundu S.	PhD Thesis Examiner	Anna University, Chennai	March 2015
Ghatak R.	M.Tech (Microwave) Viva	The University of Burdwan	August 2014

Department of Information Technology

Name of the faculty	Name of the examination	University/Institute	Date
Howlader, J.	Examiner of the subject 'Computing and Informatics (AD 303/AN 203)	The Institution of Engineers (INDIA)	July 10, 2014
Howlader, J.	Paper setter of Theory of Computation (IT 501 OLD)	Mizoram University	November 29, 2014
Howlader, J.	Paper setter of Data Structure Using C++ (U13CS305)	Vivekanandha College of Engineering for Women (VCEW)	November 12, 2014
Mitra, D.	External examiner for M.Tech thesis evaluation 2013-14.	PDSIT, IEST Shibpur	May 16, 2014
Mitra, D.	External examiner for M.Tech thesis evaluation 2013-14.	SoVT, IEST Shibpur	May 22, 2014
Mitra, D.	External examiner for B.Tech Grand Viva 2013-14.	Department of IT, IEST Shibpur	May 23, 2014

Department Of Management Studies

Name of the faculty	Name of the examination	University/Institute	Date
De A.	Paper-setter of 'Business Law' in the MBA examination	Integral University, Lucknow	April, 2014

Name of the faculty	Name of the examination	University/Institute	Date
De A.	Paper-setter of 'Principles of Management' in the BBA examination	Integral University, Lucknow	October, 2014
Dutta A	BOS	WBUT	January 2015
Roy M	PhD thesis Examiner	SVNIT SURAT	Sept. 2014
Roy M	PhD thesis Examiner	SVNIT SURAT	October, 2014

Department of Mathematics

Name of the faculty	Name of the examination	University/Institute	Date
Sarkar (Mondal) S.	M.Sc. Part I Exam. 2015 (Group C)	Bethune College, Kolkata.	March, 2015.
Bagchi S.	BTech Maths, 2015	NBKV, Cooch Behar	March, 2015

Department of Mechanical Engineering

Name of the faculty	Name of the examination	University/Institute	Date
Pramanik S.	External expert for the Board of Examiners to examine M. Tech. Thesis	IEST Shibpur	December, 2014
Pramanik S.	External expert for the Board of Examiners to examine M. Tech. Thesis	IEST Shibpur	May, 2015

Department of MME

Name of the faculty	Name of the examination	University/Institute	Date
M. M. Ghosh	Examiner for Ph. D. Thesis And member of viva voce board	Anna University	Mar. 2015
K. S. Ghosh	Examiner for Ph. D. Thesis And member of viva voce board	JNTU, Hyderabad	Two Thesis is 2014-15
Bera S.	Question setter and examiner	NIFFT, Ranchi	June 2014
Bera S.	External expert for viva voce	NIFFT, Ranchi	December 2014
Bera S.	External expert for Registration and synopsis seminar	IEST, Shibpur	February 2015

Department of Physics

Name of the faculty	Name of the examination	University/Institute	Date
Chakraborty, AK	External Paper Setter, M. Sc. exam. in Physics	ISERC, Visvabharati, Shantiniketan	November, 2014
Chakraborty, AK	External Paper Setter, M. Sc. exam. in Physics	ISERC, Visvabharati, Shantiniketan	April, 2014
Chakraborty, AK	External Paper Setter, M. Sc. exam. in Physics	Integral University, Lucknow	November, 2014
Kumbhakar P.	Moderator for M.Sc, Sem.-II & M.Sc, Sem.-IV in Physics, P-204 & Spl. P. 404	Burdwan University, Burdwan	21.05.2014
Kumbhakar P.	External Examiner, M. Sc Sem-IV in Physics Practical Exam 2014 in Special Paper-405 (Laser Physics)	Burdwan University, Burdwa	17.06.2014
Kumbhakar P.	External Examiner of Thesis	School of Laser Sc. and	20.06. 2014

Name of the faculty	Name of the examination	University/Institute	Date
	(M. LT. Final Examination 2014)	Tech., Jadavpur University, Kolkata	
Kumbhakar P.	Moderator in Physics Paper 204, M. Sc. 2nd Sem Examination 2014	Burdwan University, Burdwan	24.06.2014
Meikap A. K.	Paper setter & Examiner	The Indian Institute of Metal, Kolkata	2014-2015
Meikap A. K.	Examiner	Institute of Engineers, Kolkata	2014-2015
Meikap A. K.	Paper Setter	Burdwan University, Burdwan	2014-2015
Mondal A	Paper setter & Examiner	Vellore Institute of Technology	2014-2015
Sahoo S.	Question paper setter (M. Sc., Physics, 1st Sem.)	Veera Surendra Sai University of Technology, Burla, Orissa	December, 2014
Sahoo S.	Examiner of the Paper Material Science and Engineering (AN202/AD302).	Institute of Engineers	July-August 2014,
Sahoo S.	Examiner of the Paper Material Science and Engineering (AN202/AD302).	Institute of Engineers	January-February 2015,

Annexure 11.16 (e): Invited experts in selection committee during 2014-15

Department Of Chemical Engineering

Name of the faculty	Discipline	University/Institute	Date
Prof.Halder G. N.	Selection of Faculty member in Chemical Engg Dept	Ghani Khan Chowdhary Institute of Technology Malda	September 12, 2014
Prof.Kumar T	Petroleum Engineering	IIT Madras	June 15, 2014
Prof.Kumar T	Petroleum Engineering		Feb 2, 2014
Prof.Narayanan C.M.	Selection of Factory Inspector	Bihar Public Service Commission	February 27, 2014
Prof.Pal Parimal	High power selection Committee of Professors	Jadavpur University	September 2014

Department of Chemistry

Name of the faculty	Discipline	University/Institute	Date
Prof.Mukhopadhyay B.P	Selection of Faculty in Chemistry	Bidhan Chandra Institution	January, 2015
Prof.Mukhopadhyay B.P	Selection of JRF / SRF / Project Fellow	CMERI	February, 2015
Prof.Mukhopadhyay B.P	Selection of SRF	CMERI	January, 2015
Panja S.S.	Selection of JRF in sponsored project	ISM, Dhanbad	09.12. 2014

Department of Computer Science and Engineering

Name of the faculty	Discipline	University/Institute	Date
Kisku, D.R.	Expert Member of the Selection Committee	NITTTR Kolkata	March 21, 2015

Name of the faculty	Discipline	University/Institute	Date
	for selection of candidates for various technical posts		
Kisku, D.R.	Expert Member of the Screening Committee for shortlisting of candidates for various technical posts	NITTTR Kolkata	February 14-15, 2015
Kisku, D.R.	Expert Member of the Selection Committee for selection of candidates for various technical posts	NITTTR Kolkata	May9-10, 2015
Pal, T. (Chairman of selection committee)	Selection of Sr. Project Fellow/Project SRF/Project Fellow/Project JRF of CSIR	Central Mechanical Engineering Research Institute (CMERI), Durgapur	February 2, 2014
Roy, S.	Expert Member of the Selection Committee for selection of Computer Science faculty	NPTI Durgapur	March 2015
Roy, S.	Expert Member of the Selection Committee for selection of candidates for various technical posts	CMERI Durgapur	March 2015

Department of Mathematics

Name of the faculty	Discipline	University/Institute	Date
Sarkar (Mondal) S	Selection of faculty in Mathematics	Netaji Subhas Open University, Kolkata	14 – 15 March 2015

Department of Mechanical Engineering

Name of the faculty	Discipline	University/Institute	Date
Banerjee N.	Screening committee member for selection of faculty members in NTTTR, Kolkata	NTTTR, Kolkata	January 09, 2015
Layek A.	Selection Committee,	NIT Manipur	2014

Annexure 11.16 (f): Invited lectures during 2014-15

Department of Biotechnology

Name of the faculty	Title of the lecture	Programme	Place	Date
Bhattacharjee, Ashish	Novel regulation of one inflammatory gene by other in alternatively activated monocytes/macrophages	National conference on "Recent Advances in Biotechnological Research in North East India: Challenges and Prospects"	Dept. of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam, India	Nov 27-29, 2014
Bhattacharjee, Ashish	Role of 15- Lipoxygenase (15-LOX) in the pathogenesis of several diseases	4th Conclave of Ramalingaswami Fellows, DBT-Govt. of India	Institute of Life Sciences, Nalco Square, Bhubaneswar, India	30th Jan-1st Feb, 2015
Dasgupta, Dalia	Environmental risk assessment	Industrial Waste Management and recovery	NIT, Durgapur	June 30-July 4,

Name of the faculty	Title of the lecture	Programme	Place	Date
		of value aided product		2014
Dey, Apurba	Anaerobic Waste Water Treatment	World Environment Day	IEI-DLC 2015, Durgapur	22 March 2015
Kazy, Sufia Khannam	Microbial Communities and functional potential in Petroleum Hydrocarbon Contaminated Environments	55th Annual Conference of Association of Microbiologists of India on Empowering Mankind with Microbial Technologies (AMI-EMMT-2014)	Tamilnadu Agricultural University, Coimbatore	November 12-14, 2014

Department Of Chemical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Ghanta K.C.	Computational Methods in Chemical Engg.	National Conference on Innovation and Development in Chemical Process Technology	University School of Chemical Technology, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi	Feb. 28-1 March 2014
Halder G.N.	Prospects of Coalbed Methane in India	Upstream and downstream operations in Petroleum Industries (UDOPI-2014)	National Institute of Technology, Durgapur	February 6-10, 2014
Prof. Kumar. T	Role of fossil fuels	ICC Conference	ISM Dhanbad	December 16, 2014
Prof. Kumar. T	Oil and Gas Scenario	Petroleum in India Seminar	CU Kolkata	March 20, 2015
Prof. Kumar. T	Water Security	World Water Day Conference	IEI Dhanbad	March 22, 2015
Prof. Kumar. T	Petroleum for Energy Security	ISTE National Convention	NIT Jalandhar	March 26-27, 2015
Prof. Kumar. T	Education and Research in Oil and Gas	R&D conclave	IIT Madras	November 04, 2014
Narayanan C.M.	Novel Designs of Industrial Bioreactors – Recent Developments	Invited Lecture', International Conference on Advances in Chemical Engineering and Technology	TKM College of Engineering, Kollam	October 16 – 18, 2014.
Narayanan C.M	Synthesis of Green plastics starting from Industrial Effluents	Plenary Lecture, National Conference on Energy, Environment and Sustainable Development	The Institution of Engineers(I), Durgapur	April, 2015

Department of Chemistry

Name of the faculty	Title of the lecture	Programme	Place	Date
Panja SS	Fluorescence Sensor – Emerging tool to detect environmentally/ biologically important analytes	UGC sponsored seminar on "Role of chemistry in human Civilization"	Jogesh Chandra Chaudhuri College, Kolkata	September 26, 2014
Saha R. N	Green chemistry approaches for the	One day National Seminar on Green Chemistry sponsored	Gushkara College,	March, 22, 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
	reduction of pollution load from industrial discharges	by UGC	Burdwan	
Saha R. N.	Advanced Oxidation Processes for water and wastewater Treatment	Two days National Workshop on "Challenges and Opportunities for Management of Water Supplies in Rural Areas (COMWRA 2015)	ISM Dhanbad, under KRC Scheme of Ministry of Drinking Water & Sanitation.	January 23-24, 2015

Department of Computer Applications

Name of the faculty	Title of the lecture	Programme	Place	Date
Mr. Sujoy Saha	Security in Delay Tolerant Network	Data Communication and its Applications	Bankura Unnayani Institute of Engineering	April, 2014
Dr. Suvrojit Das	Free and Open Source System	Guest Lecturer of LinDroid Programme	Asansol Engineering College, Asansol	Jan, 2015
Dr. Suvrojit Das	Seminar on Applications of Signal Processing and System security		Budge Budge Institute of Technology (BBIT), Calcutta	Feb, 2015

Department of Computer Science and Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Dalui, M.	Cellular Automata: In Exascale Design Solutions	TEQIP – II Sponsored Workshop on "Emerging Trends in VLSI" [ETV 2014]	National Institute of Technology Durgapur	February 17-21, 2014
De, T.	Some Studies on Routing, and Scheduling issues in Delay Tolerant Networks	TEQIP-II Sponsored Short Term Training on "Data Communication and its Applications"	Bankura Unnayani Institute of Engineering (BUIE).	April 14-18, 2014
Pal, T.	Multi-Objective Evolutionary Algorithm (MOEA)	TEQIP – II Sponsored One Week Faculty Development Programme on "Optimization Techniques using Nature Inspired Algorithms for Engineering Applications"	University College of Engineering, Rajasthan Technical University	January 19-23, 2015
Pal, T.	Genetic Algorithms and its Applications	Guest Lecturer	NIT Agartala	April 27, 2014
Pal, T.	Simple and Multi-objective Genetic Algorithm	Application of Soft computing & Optimization Techniques in Engineering & Engineering Science (ASCOTEES-2014)	NIT Durgapur	March 4-8, 2014
Roy, S.	Formal Techniques in FPGA Routing	FMUpdate	IIT Kharagpur	July 2014
Sarker, S.	World Telecommunication Day	World Telecommunication Day, IE(I) Durgapur Local Center	Durgapur	May 18, 2014
Sarker, S.	Cooperative Systems for Next Generation Networks	IE(I) Durgapur Local Center	Durgapur	April 27, 2014

Department of Electrical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Mahato S. N.	Control of Stand-alone Induction Generators	Invited lecture in a one-day seminar on the theme "Opportunities and Challenges of green power generation, its economics and sustainability at on	DIATM, Rajbandh	August 08, 2014.

Department of Electronics & Communication Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Kundu,S.	Nano Technology for Wireless Communication	Guest Lecturer at Institution of Engineers	Durgapur	29 th March, 2015
Kundu,S.	Cognitive Radio Issues and Challenges	Faculty Dev Prog at IES College of Technology, Bhopal	Bhopal	22 nd January, 2014.
Kundu,S.	Cooperative Communication in Cognitive radio Network	Faculty Development Program on "Fundamentals of fiber and wireless communications for the next generation Systems" sponsored by TEQIP II	Institute of Radio Physics and Electronics, University of Calcutta	31 st Jan, 2014
Ghatak, R.	Revisiting ABCD Matrix in microwave circuit analysis paradigm	One Week TEQIP II sponsored workshop on Microwave and Antenna Techniques organized by National Institute of Technology Durgapur, West Bengal, INDIA	Durgapur	June 23-27, 2014
Ghatak, R.	Evolution of Microwave Engineering: Interpretations and Discussions	Tutorial at the IEEE Lecture series held at NSHM Knowledge Campus Durgapur	Durgapur	September 20, 2014
Ghatak, R.	Evolution of Microwave Engineering: Interpretations and Discussions	A lecture at C2E2 2015 held at Sir J C Bose School of Engineering Mankundu, West Bengal.	Mankundu, Hooghly	January 10, 2015
Ghatak, R.	Evolution of Microwave Engineering: Interpretations and Discussions	A talk at the IEEE workshop on "Microwave Engineering Application" held at Dr. B C Roy College of Engineering, Durgapur West Bengal.	Durgapur	March 15, 2015
Mandal, S. K.	Different Techniques to Synthesize Power Patterns in Time-Modulated Antenna Arrays	One Week TEQIP II sponsored workshop on Microwave and Antenna Techniques organized by National Institute of Technology Durgapur, West Bengal, INDIA	Durgapur	June 23-27, 2014

Department of Information Technology

Name of the faculty	Title of the lecture	Programme	Place	Date
Chakraborty, B.	Knowledge management Applications in e-government services	Keynote Lecture 3 rd Students' Conference on Engineering and Systems (SCES 2014)	MNNIT, Allahabad	May 28, 2014
Howlader, J.	IT Act in the Perspective of Cyber Crime	Workshop on Cyber Security	CIRF, Durgapur	January 17, 2015

Department Of Management Studies

Name of the faculty	Title of the lecture	Programme	Place	Date
Bandyopadhyay Gautam	Research Methodology	Invited lecture	Shri Shikshayatan College, Calcutta	22-23 May, 2014
Bandyopadhyay Gautam	Multivariate Data Analysis Using SPSS	Invited lecture	ISM Dhanbad	17 th July 2014
Bandyopadhyay Gautam	Application of Mathematics and Statistics in Field of Engineering & Operation Management	Invited lecture	Future Institute of Engineering & Management	30-31 October, 2014
Bandyopadhyay Gautam	Structural Equation Modelling	Invited lecture	Department of Psychology, CU	21st March 2015
Ghosh Amlan	Research Methodology	Invited Lecture	Dept of Business Administration, Vidyasagar University	12 th September 2014
Ghosh Amlan	Emerging trends in financial services	Invited Lecture	Dept of Management, University of North Bengal	4 th & 5 th December 2014
Dutta Avijan	Effective selling	Management development programme	Birla Corporation-Durgapur	14 th march 2015
Mandal, K.	Training on Selling Process	Training to sales staff of 'Birla Cement' of W.B, Bihar & Jharkhand	Durgapur	14 th march, 2015

Department of Mathematics

Name of the faculty	Title of the lecture	Programme	Place	Date
Pal, A.	Mars Orbitor Mission	4 th Conference and Chattaranjan Science Fair 2015	Barabani Bigyan Kendra, Chattaranjan	10 January 2015
Pal, A.	Applications of Graph Theory	One week workshop on Graph Theory, Coding Theory and Cryptography.	NIT, Durgapur	07-13 April 2014
Sarkar (Mondal) S.	Stochastic Optimization	National Workshop in Advanced Algorithm and Optimization 2014	NIT, Durgapur	15 – 19 September 2014.

Name of the faculty	Title of the lecture	Programme	Place	Date
Sarkar (Mondal) S.	Inventory Control and Management using Forecasting and Exchange Curve.	National Seminar on Mathematics to Comemorate Sesquicentenary of Sir. Asutosh Mookerjee	Dept. of Maths, Sidho – Kanho – Birsha University, Purulia	25 April, 2014
Basu K	Multi objective optimization of transportation problems	National Workshop in Advanced Algorithm and Optimization 2014	Dept. of Mathematics , NIT Durgapur	15-19 September , 2014
Kar S.	Introduction to Fuzzy Sets and Fuzzy Logic	State Level Seminar on Mathematics & its Applications	Burdwan Raj College	02 December, 2014
Kar S.	Fuzzy Optimization and Fuzzy Decision Making	TEQIP –II Sponsored short term course on Advanced Algorithm and Optimization	NIT Durgapur	14– 18, September 2014

Department of Mechanical Engineering

Name of the faculty	Title of the lecture	Programme	Place	Date
Hui N. B.	Traditional vs. Non-traditional optimization techniques	Invited Lecture	Institute of Engineering Technology, Durgapur	of March 17, & 2015

Department of Physics

Name of the faculty	Title of the lecture	Programme	Place	Date
Chakraborty, AK	CNT and graphene based composites for diverse appications	TEQIP-II Sponsored National Workshop on Nano Science & Technology	Bankura Unnayani Institute of Engineering	January 19-23, of 2015
Chakraborty, AK	CNT metal oxide supercapacitors	Academic Guest as Recipient of Liverpool India Fellowship award	University of Liverpool, Liverpool, UK	of July 7, 2014
Chakraborty, AK	Carbon nanotube based epoxy nanocomposites	Workshop on 'Recent Advances in Engineering Materials: Macro to Micro'	NEOTIA Institute of Technology, Management & Sciences, Sharisha	March 14, 2015
Chaudhuri, H.	Exploration of Helium and Geothermal Power	Advances in New and Renewable Energy Materials and Technology	Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand	March 23 -27, 2015
Chaudhuri, H.	Nuclear Renaissance in India	Advances in New and Renewable Energy Materials and Technology	Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand	March 23 - 27, 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
Chaudhuri, H.	Measurement techniques of lighter and heavier compositions of a liquid or gas sample	Techniques for Material Characterization (ETMC– 2015)	NIT Durgapur, WB	February 27 - March 3, 2015
Chaudhuri, H.	Geochemical Precursor for Earthquake	Decision Support Systems for Early Warning and Mitigation of Disaster	NIT Durgapur, WB	December 28-30, 2014
Chaudhuri, H.	Exploring Geothermal Power at Bakreswar	Recent Trends in Materials Science and Electronics (RTMSE – 2014)	NIT Durgapur, WB	December 10 -14, 2014
Chaudhuri, H.	Bakreswar Hot Spring – An Incredible Site for Cultivation of Science and Religion	P N Ghosh Memorial Lecture	Midnapore College, Midnapore, WB	February 8, 2014
Chaudhuri, H.	Exploring Seismo-Geochemical Signals	One day seminar in nonlinear dynamics	Saha Institute of Nuclear Physics, Kolkata	February 6, 2014
Kumbhakar, P.	Development of New Materials for Photonics and Nanotechnology Devices and Their Role in Transformation of Human Life	Special Summer School on "India Vision 2020 : An Introspective Dialogue" (Invited Talk)	ASC, Burdwan University, Burdwan	June 24, 2014
Kumbhakar, P.	Synthesis, Linear and Nonlinear Optical Properties of Some Special Nanostructured Materials for Advanced Photonics Devices (Part-I and Part-II)	AICTE Sponsored Short Term Course , Sept. 1-12, 2014 (Invited Talk)	IIT Kharagpur	Sept 1, 2014
Kumbhakar, P.	Nonlinear Optical and Nanophotonic Materials; - Fundamentals and Simulations of Optical Properties	2nd RC in Mathematical Modeling and its Application in Science (Invited Talk)	ASC, Golapbag, Burdwan University	September 18, 2014
Kumbhakar, P.	Leadership Skills for Digital India:- Vision-2020 & Roles of Photonics and Nanotechnology	Talks on Development of Leadership Skills for Digital India	CCA, Durgapur	NIT Oct 21, 2014
Kumbhakar, P.	Nanomaterials: Fundamentals and Technological Applications in Real Life	National Seminar on Recent Trends In Applied Sciences And Humanities And Its Impact On Engineering Field (Invited Talk)	DIATM, Durgapur	Nov. 5, 2014
Kumbhakar, P.	Simple Chemical and Laser Ablation Techniques for Synthesis and Characterizations of Some Nanostructured Materials	SEMINAR on "Additive and Allied Manufacturing (SAAM- 2014)"	CSIR-CMERI Durgapur, India	Dec. 2, 2014
Kumbhakar, P.	Leadership Skills and the Role of Photonics in Fulfilling the Mission of NMEICT	6th RC in Information Technology (Invited Talk)	ASC, Golapbag, Burdwan University, Burdwan	Dec. 9, 2014
Kumbhakar, P.	Development of Leadership Skills for	Winter School on "Advanced Extension Strategy for	BCKV, Kalyani	Dec. 11, 2014

Name of the faculty	Title of the lecture	Programme	Place	Date
	Digital India	Communication and Management Skill for Extension Personnel: The Approach, Methodology and Application” 3rd Dec. 2014 to 23rd Dec., 2014. (Invited Talk)		
Kumbhakar, P.	Observations of Huge Nonlinear Optical Properties in Some Semiconductor Nanostructured Materials	Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) (Invited Talk)	MAHATMA GANDHI UNIVERSITY, Kottayam, Kerala, India	Dec. 19-21, 2014
Kumbhakar, P.	Linear and Nonlinear Optical Properties of Some Novel Nanostructured Materials Synthesized by Simple Chemical and Laser Ablation in Liquid Techniques	International Conference on Frontiers of Spectroscopy (ICFS-2015) (Invited Talk)	BHU, Varanasi	Jan. 10-12, 2015
Kumbhakar, P.	Fundamentals and Recent Advances in Synthesis and Optical Properties of Some Novel Nanostructured (0D, 1D and 2D) Materials	National Workshop on Nano Science & Technology (NWNST-2015) (Invited Talk)	Bankura, Unayani Institute of Engineering, Bankura	Jan. 19, 2015
Kumbhakar, P.	Fundamentals and Some Recent Advances in Nanostructured Materials & Awareness on NMEICT Programme and Leadership Skills	UGC-Refresher Course on “Recent Advances in Subatomic Physics” (Invited Talk)	Sambalpur University, Odisha	Jan. 26-27, 2015
Mondal, A.	Nanowire Based Optical Sensor and its Characterization	Short Term Course on Experimental Techniques for Materials Characterization (ETMC-2015)”,	Physics Department, NIT Durgapur	February 28, 2015
Meikap, A. K.	Anomalous Dephasing Scattering Rate in Disordered Alloys at Low Temperature	Short Term Course on Experimental Techniques for Materials Characterization (ETMC-2015)”,	NIT Durgapur	1st March 2015
Meikap, A. K.	Anomalous Electrical Transport Properties of Disordered Solids at Low temperature	Workshop on “Characterization and Functionalization of Nanomaterials (CFN-2015)” under UGC-Networking Programme	BHU, Varanasi	11th March 2015
Meikap, A. K.	Electrical Transport of Conducting Polymer and its Nanocomposites	Workshop on “Characterization and Functionalization of Nanomaterials (CFN-2015)” under UGC-Networking Programme	BHU, Varanasi	12th March 2015
Meikap, A. K.	Low temperature Electrical Transport in Disordered Conductors	Workshop on “Physics of Low Dimensional Structures (PLDS 2015)” under Theoretical Physics Seminar Circuit of S N Bose National	Vidyasagar University, Midnapore	27th March 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
		Centre for Basic Sciences, Kolkata, DST & UGC, New Delhi		
Sahoo, S.	An Overview of Fractional Quantum Hall Effect in Graphene	Short-Term Course on "Nanostructured Materials: Theory, Processing and Characterization (SNTPC-2014)"	NIT Durgapur	10th April, 2014
Sahoo, S.	Search for a Unified Theory: A Dream for Scientists	Short-Term Course on "Advanced Material Physics (AMP-2014)"	NIT, Raipur	20th May, 2014
Sahoo, S.	Higgs Boson: Newly Discovered Elementary Particle	Short-Term Course on "Advanced Material Physics (AMP-2014)"	NIT, Raipur	20th May, 2014
Sahoo, S.	Quantum Hall Effect in Graphene: Status and Prospects	Short-Term Course on "Advanced Material Physics (AMP-2014)"	NIT, Raipur	21st May, 2014
Sahoo, S.	An Introduction to Quantum Hall Effect in Graphene	Self-financed Short-Term Course on "Recent Trends in Material Science and Electronics (RTMSE-2014)"	NIT, Durgapur	12th December, 2014
Sahoo, S.	Higgs Boson: A Bridge for Different Branches of Physics	Self-financed Short-Term Course on "Recent Trends in Material Science and Electronics (RTMSE-2014)"	NIT, Durgapur	13th December, 2014

Annexure 11.16 (g): Session chair/convenor during 2014-15

Department of Biotechnology

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Mukhopadhyay, Sudit S.	Session Chair	National conference on "Recent Advances in Biotechnological Research in North East India: Challenges and Prospects"	Dept. of Molecular Biology and Biotechnology, Tezpur University, Tezpur, Assam, India	Animal Biotechnology	Nov 27-29, 2014

Department of Chemical Engineering

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Prof. Kumar T	Session Chair	ICC Conference	ISM Dhanbad	Coal and Petroleum	16 Dec 2014
Narayanan C.M.	Session Chair	International Conference on Bioprocess Engineering	Valencia, Spain	Design and Analysis of Bioactors	June 26 – 28, 2014
Narayanan C.M.	Session Chair	International Conference on Advances in Chemical Engineering and	KOLLAM	Modeling and Simulation	October 16 – 18, 2014
Narayanan C.M.	Chairman, Valedictory session	National Conference on Energy, Environment and Sustainable Development	DURGAPUR	Valedictory session	April, 2015

Department of Chemistry

Name of the faculty	Session Chair/convener	Programme	Place	Session	Date
Saha R. N	Session Chair	Two days National Workshop on "Challenges and Opportunities for Management of Water Supplies in Rural Areas (COMWRA 2015)	ISM Dhanbad	-	January 23-24, 2015
Saha R. N	Session Chair	International Conference on Mother Earth: Save it to Achieve a Sustainable Future for all	Dept. of Env. Sc., Burdwan University	-	December 10-12, 2014.

Department of Civil Engineering

Name of the faculty	Session Chair/convener	Programme	Place	Session	Date
Roy, P.	Session Co-Chair	<i>Structural Engineering Convention (SEC 2014)</i>	IIT Delhi, New Delhi		December 22 - 24, 2014

Department of Computer Science and Engineering

Name of the faculty	Session Chair/convener	Programme	Place	Session	Date
De, T.	Session Chair	3 rd International Conference on Recent Trends in Computing (ICRTC 2015)	Ghaziabad, India.		March 12-13, 2015
Kisku, D.R.	Session Chair	Special Session on Human Affects in Intelligent Interfaces in conjunction with ICACCI 2015.	Kochi, Kerala		August 10-13, 2015
Kisku, D.R.	Convener	One Day Workshop on Algorithms Analysis & Design for Data Representation	Asansol, West Bengal		March 28, 2014
Pal, T.	General Chair	International Conference on "Frontiers in Intelligent computing: Theory and Applications (FICTA – 2015)"	NIT Durgapur		To be held during 16 - 18 November 2015
Pal, T.	Session Chair	Second International Conference on Information systems Design and Intelligent Applications (INDIA-2015)	University of Kalyani		January 8-9, 2015
Pal, T.	Session Chair	International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2014)	Bhubaneswar, Odisha		Nov. 14-15, 2014
Pal, T.	Session Chair	International Conference on Industrial Engineering Science and Applications (IESA-2014)	NIT Durgapur		April 2-4, 2014
Pal, T.	Session Chair	International Conference on Business and Information Management, ICBIM-2014	NIT Durgapur		January 9-11, 2014

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
De, T.	Session Chair	3 rd International Conference on Recent Trends in Computing (ICRTC 2015)	Ghaziabad, India.		March 12-13, 2015
Sarker, G.	Session Chair	2 nd International Conference on Advanced Computing, Networking and Informatics	Kolkata, West Bengal		June 24-26, 2014

Department of Earth and Environmental Studies (sample)

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Adhikari K.	Session Chair	2015 6 th International Conference on Environmental Science and Development (ICESD 2015)	Amsterdam	5	15.02.15

Department of Electrical Engineering

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Dey Jayati	Session Chair	IEEE International Conference on Industrial Technology (ICIT) 2015	Sevilla, Spain	Control System, Robotics & Mechatronics	17th -19th March, 2015

Department of Electronics & Communication Engineering

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Kundu, S.	Session Chair	IEEE International Conference on Computer, Communication, Control and Information Technology (C3IT-2015)	Academy of Technology, Hooghly, WB	Wireless Communication Track	8 th Feb, 2015
Ghatak, R.	Session Chair	C2E2 2015	Mankundu, West Bengal	Oral Technical Paper Presentation	January 10, 2015
Mandal, S. K.	Session Chair	International Conference on Industrial Engineering Science and Applications (IESA 2014).	Electrical Engineering, NIT Durgapur	Oral Technical Paper Presentation	April 02-04, 2014

Department of Information Technology

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Chakraborty, B.	Session Chair	3 rd Students' Conference on Engineering and Systems (SCES 2014)	MNNIT Allahabad	Soft Computing Approaches in Engineering Applications-I	May 28, 2014

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Chakraborty, B.	Session Chair	3 rd Students' Conference on Engineering and Systems (SCES 2014)	MNNIT Allahabad	Soft Computing Approaches in Engineering Applications-I	May 28, 2014
Das, D.	Conference Judge	All India Students' Engineering Congress 2012 Durgapur Chapter	Durgapur	Session-II	February 21-22, 2015
Mukhopadhyay, S.	Session Chair	PICom 2014	Dalian, China.	Session P01	August 24-27, 2014

Department Of Management Studies

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Mandal, K.	Session Chair	Emerging Markets Conference-Redefining Value in Emerging Markets	Dubai		January 20-22, 2015

Department of Mathematics

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Basu K	Session Chair	National Workshop in Advanced Algorithm and Optimization 2014	Dept. of Mathematics, NIT Durgapur	NWAAO-2014	15-19 September 2014

Department of Mechanical Engineering

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Hui N. B,	Session Chair	First International Conf. on Intelligent Computing and Applications,	NIT Durgapur	Soft Computing & Its Application in Engineering	December 24, 2014

Department of MME

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
M. M. Ghosh	Session Chair	XIII International Conference on "Metallurgical and Materials Engineering" (ICMME 2015) held at London, UK during Jan. 19-20, 2015	London, UK	Computational Materials Science	Jan. 19-20, 2015
K.S. Ghosh	Session Chair	3 rd International Conference on "Laser and Plasma Applications in Materials Science"	IIT Kharagpur		January 15-17, 2015

Department of Physics

Name of the faculty	Session Chair/convenor	Programme	Place	Session	Date
Kumbhakar, P.	Session Chair	Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014)	MAHATMA GANDHI UNIVERSITY, Kottayam, Kerala, India	Keynote Lecture-IV, Theory/Modelling/Simulation-I & Membranes-I	Dec. 19, 2014
Kumbhakar, P.	Session Chair	National Seminar on Recent Trends In Applied Sciences And Humanities And Its Impact On Engineering Field	DIATM, Durgapur		Nov. 5, 2014
Meikap A. K.	Session Chair	International Conference of Emerging Materials: Characterization and Application (EMCA-2014)	CGCRI, Jadavpur, Kolkata	8A	December 4-6, 2014

Annexure 11.17 Other information

- Prof. T.Kumar attended the Board of Directors Meeting at NTPL, Chennai. 19th May 2014.
- Prof. T.Kumar attended the Board and Audit Committee Meeting at NTPL, Chennai. 16th July 2014.
- Prof. T.Kumar attended the first court of Tripura Central University, Agartala. 24th November 2014.
- Prof. T.Kumar was the member of Mentor Advisory Committee in the 3rd International Conference of Petroleum Engineering and Science, 2014 held at IIT Madras during 3rd-5th November 2015.
- Chemistry Department organised visit of M.Tech. M.Sc. and Ph.D. students to Mejia Thermal Power Station of DVC on 3rd December, 2014.
- Samanta A. K., Associate Professor, Mathematics, acted as AICTE Observer for CMAT-2015 on 19-21 Feb 2015 at Durgapur Centre conducted by AICTE, ERO on Feb 2015
- The project DISARM (Co-Investigator: SujoySaha) has won ITRA (Mobile) Best LIN-PIN Award for their collaboration between the Lead Institute and the Partner Institutes.
- Mr. SujoySaha, NIT Durgapur has won ITRA (Mobile) Ph.D. Dissertation Award, 2015 for his outstanding contribution to project DISARM.
- Mr. SujoySaha Winner of IEEE Travel Grant for PerCom 2015.
- Mandal, A. K., Sarkar, A., Chaki, N., "Flexible Cloud Architecture for Healthcare Applications", Book: Applied Computation and Security Systems, Editors: RituparnaChaki, Khalid Saeed, Sankhayan Choudhury, NabenduChaki, Volume One, Part II, pp. 103 - 121, 2015, Springer [DOI: 10.1007/978-81-322-1985-9_8, Print ISBN: 978-81-322-1984-2, Online ISBN: 978-81-322-1985-9].
- Dr. T. Pal, Associate Professor, Department of Computer Science and Engineering serves as a Member of Editorial Advisory Board of the "Handbook of Research on Identity Management and Authentication for Homeland Security", Pennsylvania, USA.
- Dr. G. Sarker, Associate Professor performed one Ph.D. (Engg.) Thesis Evaluation in Anna University, Tamil Nadu.
- Dr. G. Sarker, Associate Professor performed one Ph.D. (Engg.) Thesis Evaluation in JNU University, Hyderabad.
- Dr. G. Sarker, Associate Professor reviewed one International Journal Paper of Institution of Engineers Series B, Springer Publication.
- Dr. G. Sarker was invited as Guest of Honour of the Seminar "Cooperative Systems for Next Generation Networks" organized by The Institution of Engineers (I), Durgapur Local Centre on April 27, 2014.
- Dr. G. Sarker was invited as a Guest of Honour in "World Telecommunication Day" organized by The Institution of Engineers (I), Durgapur Local Centre on May 18, 2014.
- Dr. G. Sarker, Associate Professor reviewed one International Journal Paper of Institution of Engineers Series B, Springer Publication, 2014.

- Dr. G. Sarker reviewed the manuscript of a Conference Research Paper entitled “Survey of Segmentation methods for Iris Recognition under ideal and non-ideal conditions” of the Conference ICACNI 2015, 2014.
- Dr. D.R. Kisku, Assistant Professor, Department of Computer Science and Engineering, serves as a member of Technical Program Committee for the following conferences
 - a. International Conference on “Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015).
 - b. The 9th International Conference on Multimedia and Ubiquitous Engineering (MUE 2015).
 - c. International Conference on Complex Adaptive Systems 2015.
 - d. 2nd International Symposium on Computer Vision and the Internet (VisionNet 2015).
 - e. 4th International Conference on Advances in Computing, Communications and Informatics (ICACCI 2015).
 - f. 5th International Conference on Advances in Information Mining and Management (IMMM 2015).
 - g. International Conference on Engineering and Computational Innovative Sciences (ENCINS 2015).
 - h. International Workshop on Advanced Multimedia Computing (AMC 2015).
 - i. International Conference on Advanced Intelligent Mobile Computing (AIM 2015).
 - j. The 2015 Global Conference on Information Technology, Computing and Applications (GlobalIT 2015).
 - k. International Biometrics and Smart Government Summit (IBMSGs 2015).
 - l. International Conference on Computer Vision and Image Analysis (ICCVIA 2015).
 - m. 4th International Conference on Advanced IT, Engineering and Management (AIM 2014).
 - n. International Symposium on Frontier and Innovation in Future Computing and Communications (FCC 2014).
 - o. IEEE International Symposium on Computer Applications & Industrial Electronics (ISCAIE 2014).
 - p. 8th FTRA International Conference on Multimedia and Ubiquitous Engineering (MUE 2014).
 - q. International Conference on Advanced Computing, Networking and Networking (ICACNI 2014).
 - r. International Conference on Signal Processing and Integrated Networks (SPIN - Special Session) 2014.
- Dr Amlan Ghosh, Assistant Professor, Department of Management Studies has conducted Faculty Development Programme (FDP) in “Case Teaching methodology” at Heritage Business School, Kolkata during 2nd and 3rd August 2014.
- Dr. Anupam De, Assistant Professor, Department of Management Studies has contributed in the book titled “Forensic Accounting”, 1st Edition, Authors: Robert J. Rufus, Laura Savory Miller, and William Hahn, Publisher: Pearson Education (Global Edition). (Certificated received in the month of September, 2014).
- Dr. Avijan Dutta Associate Professor, Department of Management Studies end paper question moderation, acted as an external expert for selection of MBA students in 2014-15 admission 0th & 11th May'2014 at NIT-Agartala and on 19th May'2014 at IIT-KGP Saltlake, Kolkata extension center.
- Dr Neelotpaul Banerjee was a member of International Conference on Information Communication and Management (ICICM 2014), held in Geneva, Switzerland during October 8-9, 2014.
- Prof. M.Roy, served as examiner of PhD thesis of SVNIT Surat.
- Dr, Basu K, served as examiner of PhD Thesis of Dept. of Mathematics ISM Dhanbad.
- Dr, Basu K, served as examiner of PhD Thesis of Mody university of science and Technology, Rajasthan.
- Dr, Sarkar (Mondal) S, served as examiner of PHD Thesis of Modi Institute of Technology, Rajasthan.
- Dr, Kar S served as examiner of PHD Thesis of Karunya University, Tamil Nadu
- Dr. Rabindra Nath Barman, Assistant Professor, Mechanical Engineering Department acted as CMAT observer conducted AICTE, Kolkata
- Dr. Nilotpal Banerjee, Professor, Department of Mechanical Engineering, acted as AICTE Observer for Common Management Admission Test (CMAT) held during September 2014.
- Dr. Nilotpal Banerjee, Professor, Department of Mechanical Engineering, acted as External Examiner and conducted Viva voce of PhD thesis at College of Engineering, Andhra University, Vishakapatnam in February 2014.
- Dr. S. Sahoo, Assistant Professor, Physics, acted as Judge for the Science Exhibition at Gopalmath Unnayan Samiti (Gopalmath High School), Durgapur on 13th August, 2014.

- Dr. S. Sahoo, Assistant Professor, Physics, guided two M. Sc. (Physics) students of ISM, Dhanbad for summer internship (05. 05. 2014 –18. 07. 2014)
- Prof. A K Meikap: Ph.D thesis examiner and Viva-voce examination of Utkal University, Bhubaneswar
- Prof. A K Meikap: Ph.D. thesis examiner of Jadavpur University, Kolkata
- Prof. A K Meikap:Ph.D. thesis examiner of Jawaharlal Nehru Technological University, Hyderabad
- Prof. P. Kumbhakar, Ph.D. thesis examiner of Kalyani University, Kalyani

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