56th ANNUAL REPORT 2015-2016

(April 01, 2015 - March 31, 2016)

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

56TH ANNUAL REPORT

2015-2016

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

PAPERS TO BE LAID ON TABLES OF LOK SABHA/RAJYA SABHA

ANNUAL REPORT

2015-2016

MINISTER OF STATE IN THE
MINISTRY OF HUMAN RESOURCE DEVELOPMENT

NEW DELHI
DATED:

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

CONTENT

4. TEACHING PROGRAMMES

From Director's Desk

> National Institute of Technology Durgapur is an Institute of National Importance that is fully funded by the MHRD, Government of India.

I am happy to publish the 56th Annual Report 2015-16 of the Institute highlighting the progress in the last financial year.

National Institute of Technology Durgapur is an Institute of National Importance that is fully funded by the MHRD, Government of India. Its major focus is to provide quality technical education with equal emphasis on research. It constantly encourages the faculty and students to engage in active research and academics. The output indicators clearly demonstrate the colossal progress made by the Institute over the last several years in research and academia. The students are actively involved in various extracurricular activities including sports, cognitive, social and culture through various club activities. A huge expansion programme has been going on for the last several years to develop various infrastructural facilities. Some of these infrastructural facilities have already been completed. All the stakeholders of the institute 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 A. De
Director
National Institute of Technology Durgapur

Progress at a Glance (2015-2016)

- The academic programmes of the departments were comprehensively evaluated /audited during February 10-15, 2016 by three-member internal committees, constituted by the Director.
- Two faculty members participated in the Higher Education Leadership Program as directed by the MHRD, Department of Higher Education, International Cooperation Cell.
- Three faculty members have been awarded with Young Faculty Research Fellowship (YFRF) of the Visvesvaraya PhD scheme (VPS), Govt. of India. Several PhD students have been working in the said program.
- 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 507 research articles/reviews in peer-reviewed journals and also published 317 papers in proceedings of national and international conferences in 2015-16.
- Seventy three sponsored projects are being executed by the faculty members during this financial year.
- Thirty eight PhD degrees were awarded by the Institute in 2015-16.
- Faculty members acted as reviewers for 186 peer-reviewed journals.
- 619 (UG & PG) students were placed through in-campus interviews in the session 2015-2016. In addition to that 335 (UG & PG) students secured more than one job. In 2015-16, 101 companies visited the campus including most of the global players.
- More than 20 workshop/short-term courses and conferences were organized by various departments of the institute. Several of those were organised jointly by two or more departments.
- MOOCs program: Two courses have been initiated/taught by Department of Computer Sciences and Department of Mechanical Engineering.
- The projects namely (i) 1250-seated Boys' Hostel, (ii) 500+ seated Girls' Hostel, (iiii) Auditorium, (iv) VIP Guest House are in progress. Modernization of mess infrastructure has been initiated. Hostel infrastructure like renovation of washrooms etc. have been undertaken.
- Eighteen proposals are submitted to IIT Kharagpur, the coordinating centre for GIAN, for consideration in 2016.
- Ten villages are nominated to be included in the program of Unnat Bharat Aviyan.
- Department of Chemical Engg. & Chemistry have been selecte by DST, Govt. of India, for FIST Programme

The Eleventh Convocation 2015-16

The eleventh convocation of the Institute was held on December 20, 2015. Professor Anil D. Sahasrabudhe, Chairman, All India Council for Technical Education(AICTE) graces the 11th Convocation 2016 and delivered the Convocation Address as the Chief Guest. Professor Amalendu Bhushan Bhattacharyya, Chairman, Board of Governors, presided over the function.

1 INTRODUCTION

- Vision
- Education System
- New Initiatives

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 initiate the students to research-oriented teaching-learning environment in the Institute with a focus on excellence and innovation

Objectives

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

13. To remain committed to responsibilities towards providing services to community, to make people aware of crucial socio-technical and socio-economic problems, and offer technical solutions in rural, urban and agricultural sectors.

Action Plan

A. Research

1. Research activities will be taken up, in addition to the existing ones, 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. As has been the practice, freshly recruited young faculty members will be provided with startup grants for 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 a few research areas where it would like to excel and lead the country, such as Environment, Energy, Biotechnology, Corrosion, Structure, Water Resource, Power Systems, High Voltage Engineering, Microelectronics, Microwave, Machine Design, Thermal Engineering, Materials, Nanotechnology, and Software Engineering.

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

B. Collaboration

1. 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. More number of joint research proposals with premier academic and research institutions will 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 will be carried out to gather 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 are needed urgently. The entire Institute campus should be made wi-fi enabled. The infrastructure for health service should be expanded and improved. Departmental libraries should be strengthened. Audio system should be installed in large classrooms. Adequate facilities shall

be provided to the staff members. The acute shortage of basic amenities like power and water must be overcome from additional sources.

5. Students' Amenities – Auditorium, Open Air 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 awards its own degree since it 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 several years, NIT Durgapur gradually evolved from a teaching-centric institution to an institution focusing on both teaching and research. The faculty members were encouraged to intestify their research activities. This resulted in a rapid increase in research output, like publication in peer-reviewed journals and being selected for sponsored projects. The Institute also initiated collaborative research programmes with esteemed research and academic institutions like CERN, Geneva, Caledonian College of Engineering, Muscat Oman, National University of Singapore, and many other academic institutions. Internship was arranged for the undergraduate students in CERN, Geneva, Germany and NUS Singapore. A number of seminars, conferences, workshops and short-term courses were organized and the faculty members were encouraged to visit premier institutions in India and abroad for participation in conferences, short-term courses and training programmes. New academic blocks, student hostels and faculty residential blocks have been constructed and the existing academic building is being renovated.

2 AN OVERVIEW

- Historical Background
- Location
- Campus
- Administration
- Academic Programmes
- Programmes offered
- Admission Procedure
- Students
- Examination & Evaluation
- Placement
- Games and Sports
- Staff Position
- Rajbhasha Samiti

2.1 Historical Background

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

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

2.2 Location

NIT Durgapur is located in the heartland of industrial activities and the mineral-rich region of West Bengal, also known as 'The Ruhr of India'. The city of Durgapur is well connected by rail with Kolkata, 158 km away, and is an important railway station on the main New Delhi-Kolkata route. It is a two and a half hours' drive from Kolkata airport along Durgapur Expressway and NH2, and there is a military airport at Panagarh, only 20 km from Durgapur. 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

A. Under-Graduate Programmes:

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

Sanctioned intake of the Under-Graduate Programmes:

Departments	Degree Offered	Sanctioned Intake	
		All India Quota	Andaman Nicobar Quota
Bio-Technology	B. Tech.	92	4
Chemical Engineering	B. Tech.	62	5
Civil Engineering	B. Tech.	62	4
Computer Science & Engineering	B. Tech.	92	6
Electronics & Communication Engineering	B. Tech.	92	6
Electrical Engineering	B. Tech.	92	6
Information Technology	B. Tech.	92	5
Mechanical Engineering	B. Tech.	139	6
Metallurgical & Materials Engineering	B. Tech.	77	5
Total		800	47

M. Tech.

SL. NO.	Specialization (Department)	Full time Non-sponsored				Full time Sponsored	Part time	Total
		Open	SC	ST	OBC			
1	Bio-Technology	08	02	01	04	05	0	20
2	Chemical Engineering	05	03	01	04	05	05	23
3	Civil Engineering(SU)	05	03	01	04	05	05	23
4	Civil Engineering(GE)	08	01	02	04	05	00	20
5	Computer Science & Engineering	08	03	01	06	05	00	23
6	Electronics & Communication Engineering (TELE)	09	03	01	05	05	00	23
7	Electronics & Communication Engineering (VLSI)	09	03	01	05	05	00	23
8	Electrical Engineering (PS)	07	02	01	03	05	05	23
9	Electrical Engineering (MD)	08	02	01	04	05	00	20
10	Information Technology	05	03	01	04	05	05	23
11	Mechanical Engineering (MD)	06	02	01	04	05	05	23
12	Mechanical Engineering (FM)	08	02	01	04	05	00	20
13	Mechanical Engineering (TE)	06	02	01	04	05	05	23
14	Metallurgical & Materials Engineering(MT)	05	03	01	04	05	05	23
15	Mathematics (MA)	06	02	01	04	05	05	23
16	Advanced Materials Science and Technology (PH)	09	03	01	05	05	0	23
17	Entrepreneurship and Innovations (EI)	08	02	01	04	05	0	20
18	Software Engineering (CA)	08	02	01	04	05	0	20
19	High Performance Computing (HC)	07	03	02	03	05	0	20
20	Corrosion Science & Technology(CY)	07	02	01	03	05	05	23
21	Earth and Environmental Studies (ES)	08	02	01	04	05	00	20
	Total	**150**	**50**	**23**	**86**	**105**	**45**	**459**

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
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
	Total	**106**	**32**	**18**	**56**	**212**

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).

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)/ AMIIChE, 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 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 Studeies (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.

M.Sc.

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

MBA

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

Sanctioned intake of the Post-Graduate Programmes:

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

SL. NO.	Specialization (Department)	Full time Non-sponsored				Full time Sponsored	Part time	Total
11	Information Security (Information Technology)	10	03	01	04	05	00	23
12	Operations Research (Mathematics)	05	03	01	04	05	05	23
13	Fluid Mechanics and Heat Transfer (FH) (Mechanical Engineering)	07	03	01	04	05	00	20
14	Machine Design (MD) (Mechanical Engineering)	06	02	01	04	05	05	23
15	Thermal Engineering (TI) (Mechanical Engineering)	06	02	01	04	05	05	23
16	Entrepreneurship and Innovations (EI)	08	02	01	04	05	00	20
17	Physical Metallurgy (Metallurgical & Materials & Engineering)	05	03	01	04	05	05	23
18	Advanced Materials Science & Technology (Physics)	10	03	01	04	05	00	23
19	Power Electronics & Machine Drives Electrical Engineering	08	02	01	04	05	00	20
20	Geotechnical Engineering Civil Engineering	08	02	01	04	05	00	20
21	High Performance Computing Computer Centre	08	02	01	04	05	00	20
	Total	150	50	23	86	105	45	459

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
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
	Total	106	32	18	56	212

2.7 Admission Procedure

A. Under-Graduate Programmes:

As decided by the Ministry of Human Resource Development, Government of India, the procedure for selection of candidates for admission to the Bachelor of Technology 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.

B. Post-Graduate Programmes:

Mode of Admission is detailed hereunder

Sl No	Types of Student	Mode of Admission
1	Full Time GATE (M. Tech.)	CCMT
2	Full Time 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

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

Students' Research Activities

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, Unversität 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.

The following students visited CERN, Geneva, Switzerland during 9th May -4th July 2015 for "Research based project at CERN, Geneva as a part of summer internship initiative.

1.	Ananya Mahanti	Department of Electronics & Communication Engineering
2.	Nihal Kumar	Department of Mechanical Engineering
3.	Shreyasi Pathak	Department of Information Technology
4.	Arjun V Anchan	Department of Electronics&Communication ngineering
5.	Koushik Sen	Department of Electrical Engineering
6.	Spandan Chowdhury	Department of Computer Science and Engineering

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 event among all the year-long activities of the club is the convention of the Annual Techno-Management fest of the institute, Aarohan, which incidentally happens to be the second largest of its kind in Eastern India. Started in the year 2003, it has been leading the light of instilling a culture of science, technology and innovation among the youth of the nation. 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.

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 the 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.

vi. Music Club

The music club originated as an initiative to harness and exploit the crossover sonic and musical sense amongst the institute folks. Since it's 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 institute events such as the Recstacy, Aarohan, Verve, Motor Zundung and so on and so forth. Recstacy 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 Recstacy 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 imbibes the values of our Mother Nature that 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. The events are conducted 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 Department 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 village-adoption, 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, has won many accolades. The lights are put out for an hour during which candle march is proceeded.

ix. SPIC MACAY Heritage Club

SPICMACAY (Society for the Promotion of Indian Classical Music And Culture Amongst Youth) Club

The Kite Fest

With the endeavour of creating a fest that was an amalgamation of an event associated with the Indian ethos and an activity that's practised by the mass with gusto, we ended up with the idea of a Kite fest. A generic promotional event that went on to becoming a surreal experience in its execution. As is suggested by the

name, the event dealt with age old kite flying tradition of India onto which the institute mass participated with sheer enthusiasm resulting in its immense success in the very first shot. We as the members of the club enjoyed ourselves thoroughly while organising the event. The vigour with which the institute crowd participated in it knew no bounds. The long and short of it is that although an event of the kind was a first attempt by any club in this institute, it turned out to be massively appreciated, thanks to the work put together by the members of the club and gusto of the participants alike.

Viraasat

They say that the strength of any flora lies in its roots and if it be true then for sure the potency and might of any person lies in his culture. Viraasat, a fest one of its kind, is a reflection of our culture and heritage. Much like its nomenclature the fest is nothing less than a legacy that has maintained its elegance and class since its inception. Viraasat is a two day fest that was a culmination of events pertaining to the field of music, dance, singing, cinema. In all it was a celebration of one's association with one's culture. The major performances during the fest were by four stalwarts of Indian cultural art forms. The first day comprised the performance by Pandit Tejendra Narayan Majumdar - A sitar maestro one of his kind who enthralled the audience with his skill. Dr. Ileana Citaristi- An exquisite Italian born Oddisi dancer and the first foreign woman to have won the Padma shri. She graced the stage with her esteemed presence and her inspirational being. The following day started with screening of ShatranjKeKhiladi by film maestro Satyajit Ray in the morning. In the evening wehad the performances by PanditHari Prasad Chaurasia- The Padma Vibhushan artist who enthralled us all with the melodies of his flute. When the 'bansuri Guru' performed everyone was captivated by the charm of his music. UstadWasim Ahmed Khan - An artist of immense repute. A classical singer hailing from the eponymous gharana charmed the audience as he serenaded. The members of SPIC MACAY Heritage Club of NIT Durgapurput forth there best foot in order to make the event the grand success that it was. It was inspirational to every person associated with fest, seeing the esteemed artists perform in front of them and the event as a whole was nothing less than splendid.

x. 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, Teachers' day and a street play for NSS (National Service Scheme). Besides, the club takes active participation in other fests of the institute 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 institutes 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 institutes 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.

xi. Dance Club

The Dance Club, affectionately called DC, was formed in the institutein 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 institute. 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 institute 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.

xii. 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.

xiii. 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 institute 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.

xiv. 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 institute. 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.

xv. Club Communion

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

xvi. 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 toe 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 institute 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.

xvii. NSS

NSS NITD is the National Institute of Technology Durgapur chapter of the National Service Scheme, institutionalized under the Ministry of Youth Affairs & Sports Govt. of India. The Motto of NSS, "Not Me But You", reflects the essence of democratic living and upholds the need for self-less service. NSS helps the students develop appreciation to other person's point of view and also show consideration to other living beings.

In the academic year 2015-16, National Service Scheme, NIT Durgapur organised several events such as Disaster Management, Unity Day, Women's Day, Education Day, Swacch Bharat Mission, Annual Camp, Medical Camp, Blood Donation camp, etc. 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 March11-13, 2016 at Pratappur village in Durgapur. The camp activities had started months back with medicine collection from different hospitals and doctors. Clothes and other used materials were collected from faculty, staff, and students before the Free Medical Camp. During this camp free check up and treatment was provided to almost 300 inhabitants of the village. In this endeavour the students got the full support of doctors from Mission Hospital, IQ City etc. of Durgapur area. Individual doctors also served voluntarily and free of cost in this camp. Painting competition for the children, workshop on skill development, sanitation awareness, etc. were some other activities of the camp.

Swachh Bharat Mission was another important event of this session. NSS organised a number of activities for sanitation awareness in and around campus. In this session NSS volunteers were involved in Unnat Bharat Abhiyaan, a movement of GoI for the betterment of rural India

xviii. 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.

xix. 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.

2.9 Examination & Evaluation

The Institute follows semester system of examination. The undergraduate courses are of eight semester (four year) duration. The Institute has been upgraded to National Institute of Technology, Durgapur 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 , Placement and Students' Welfare abbreviated as TPSW. 619 (UG & PG) students have been placed in the academic session 2015-2016. In addition to that 335 (UG & PG) students secured more than one job. In 2015-16, 101 companies visited the campus including most of the global players, such as MICROSOFT, AMAZON, ORACLE, D E SHAW, ENDURANCE, AMDOCS, IBM, L&T-ECC, CESC, TATA MOTORS, TATA POWER, RELIANCE, VEDANTA, MARUTI, HERO MOTOR, GODREJ, ERICSSON, SCHNEIDER ELECTRIC,EMAMI, BLUE STAR and Public Sector Undertaking such as HPCL,COAL INDIA, C-DOT, HSCC,BPCL.

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 institutions of the country. Department of Physical Training organized Co-Curricular Credit Course (EA-51 & EA-52) in Physical Education & Sports and its allied branches as a compulsory subject in B-Tech for first two Semesters. The Department of Physical Training also provides training facilities to all students, staff and the family members of the employees 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 two 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 2015 and Republic Day, 26th January 2016. 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. 2015. Hindi Pakhwara was inaugurated on the first day, 1st Sept. 2015 by the Director of the institute, Professor Tarkeshwar Kumar. During Hindi Pakhwara-2015, 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 competion 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 competions organised on second last and last day of Hindi pakhwara-2015. 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 sixth 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 Puri in the month of August 2015 and and at Kanyakumari in the month of January 2016.

2.14 Notable Achievements shown in Graphs and pictures:

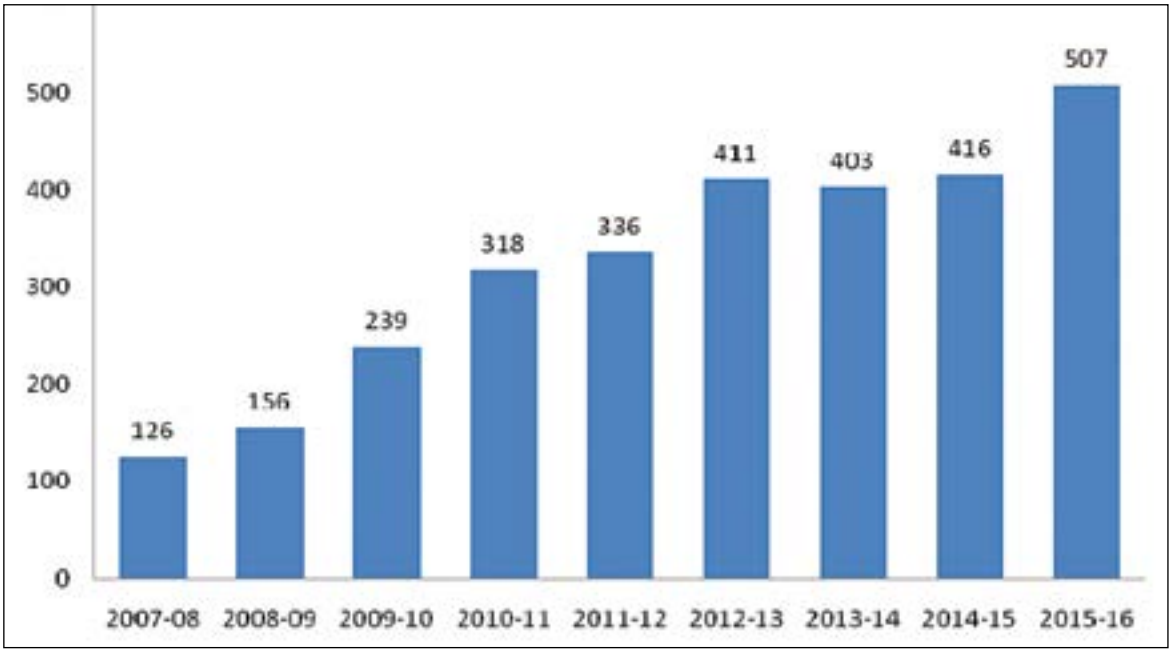

Fig. 1 Publication in journals in the last few years

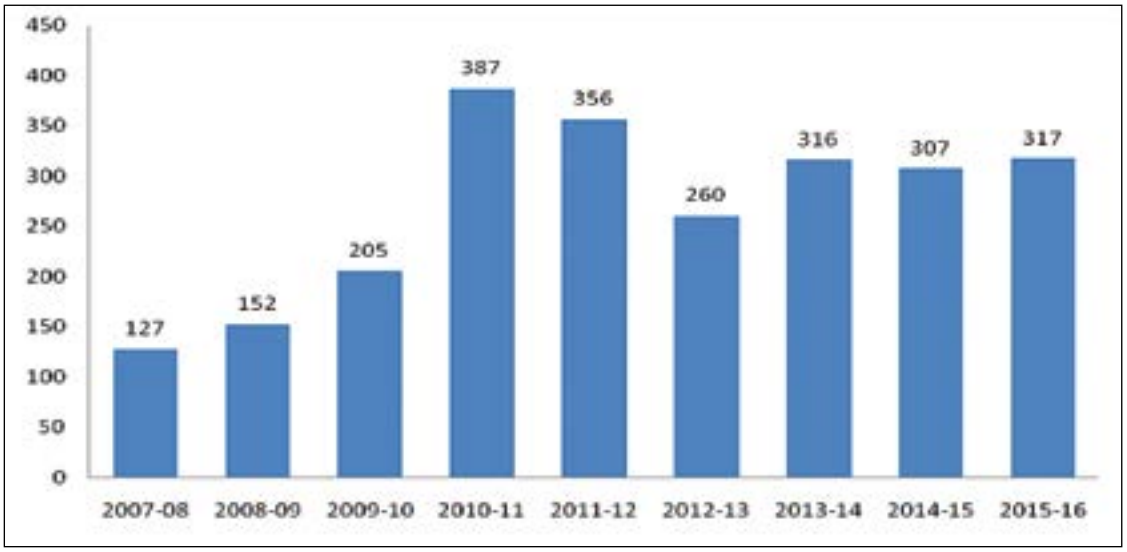

Fig. 2 Presentation in conferences/symposiums in the last few years

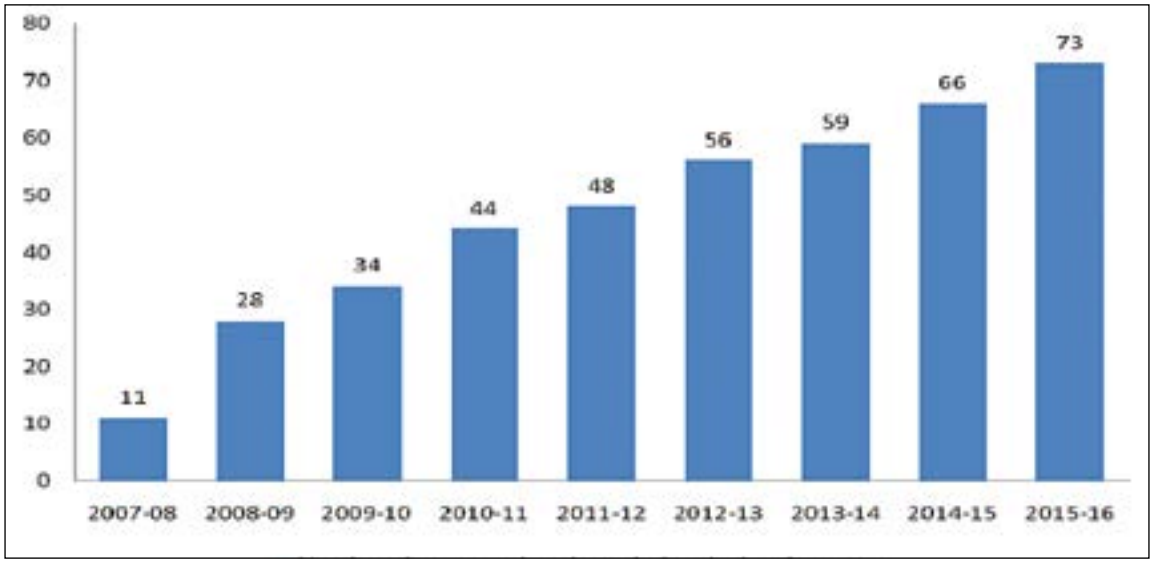

Fig. 3 Number of sponsored projects during the last few years

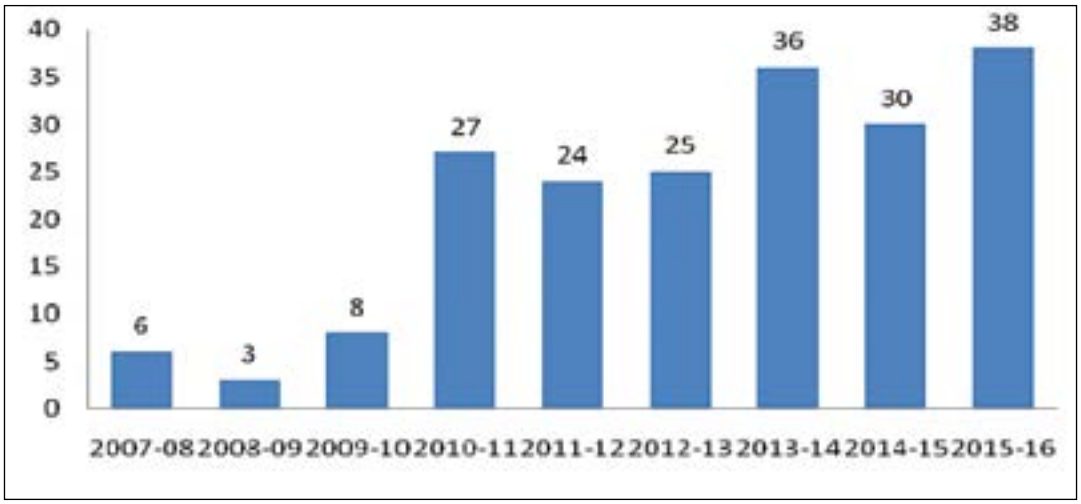

Fig. 4 Number of PhD degrees awarded during the last few years

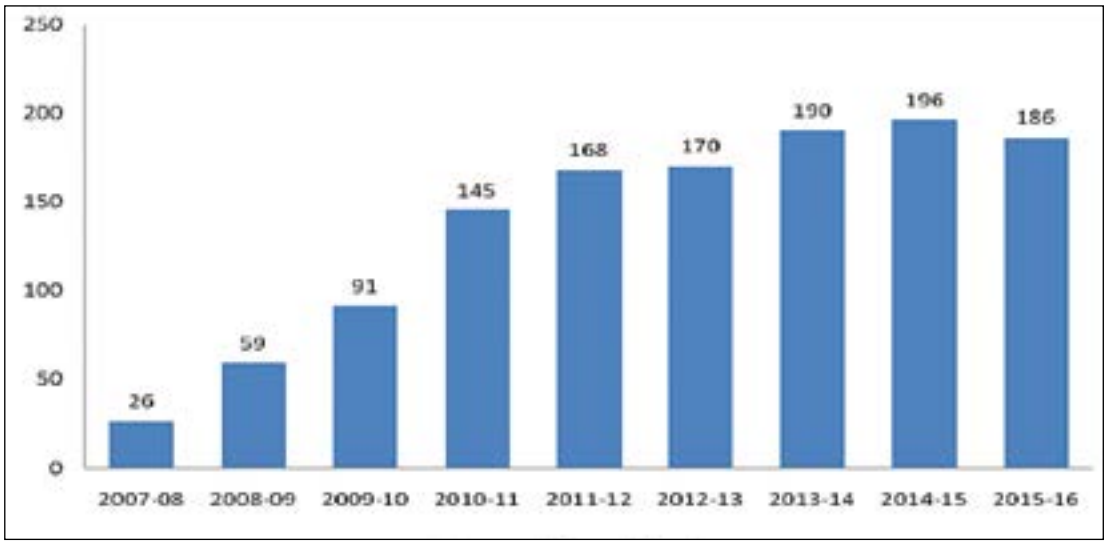

Fig. 5 Reviewers of journals/books during the last five years

Fig. 6 Summer Internship Students with PM at CERN, Geneva

Fig. 7 The Eleventh Convocation

Fig. 8 Independance day Celebrations

Fig. 9 Independance day Celebrations-Paintings by the students

Fig. 10 Golden Jubilee International Conference (GJIC - 2015)

Fig 11 Brig. A. S. Nijjar, Registrar participates in the tree planting ceremony in NIT Durgapur

Fig. 12 Innauguration of New Chemistry and Biotechnology Building, NIT Durgapur

Fig 13. NCC Wing of the Institute

Fig. 14 Awareness Rally for NSS volanteers 2016, NIT Durgapur

Fig. 15 Swachh Bharat Abhiyaan, NIT DURGAPUR 2016

3 THE STAFF

- Academic Staff (Teaching)
- Non-Academic Staff (Non-Teaching)
- Training Status
- Placement of Staff for Academic Excellence

3.1 Academic Staff (Teaching)

Department of Biotechnology

Sl. No	Name of the post	Name
01	Professor	Chattopadhyay Sudip, PhD
		Dey Apurba, PhD
02	Associate Professor	Aikat Kaustav, PhD
		Chaudhuri Surabhi, PhD
		Dasgupta(Mandal) Dalia, PhD
		Mukhopadhya Sudit Sekhar,PhD
03	Assistant Professor	Dutta Debjani, PhD
		Ghosh Monidipa, PhD
		Khannam Kazy Sufia, PhD
		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
		Haldar Subhamay, PhD
		Mondal Tamal, PhD
		Narayanan C. M., PhD
		Pal Parimal, PhD
		Sarkar Jyoti Prakash, PhD
		Sadhukhan Anup Kr.PhD
02	Associate Professor	Dutta Susmita, PhD
		Haldar 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	Dutta (Halder) Susmita, PhD
		Maji Milan, PhD
		Moi Sankar Ch., PhD
		Patra Apurba Kr, PhD
		Sukul Dipankar, PhD
		Saha Rajnarayan, PhD
03	Assistant Professor	Adhikari Utpal, PhD
		Chakrabarty Jitamanyu, PhD
		Panja Sujit Sankar, PhD
		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 Aloke, PhD
		Nanda Radhikesh Prasad, PhD
		Samanta Amiya Kr. PhD
03	Assistant Professor	Das Diptesh, PhD
		Karmakar Somnath
		Pal Supriya, PhD
		Roy Pronab, PhD
		Samal Nihar Ranjan, PhD
		Topdar Pijush, PhD
04	Trainee Teacher	Patra Pra

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, PhD
		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, PhD
		Dalui Mamta, PhD
		Guha Thakurta Parag Kr.
		Kisku Dakshina Ranjan, PhD
		Sadhu Sanjib
		Sen Bibhas, PhD

Computer Centre

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

Department of Electrical Engineering

Sl. No	Name of the post	Name
01	Professor	Banerjee Subrata, PhD
		Dutta Swapan Kumar, PhD
		Ghosh Saradindu, PhD
		Ghoshal Sakti Prasad, PhD
		Ray Nirmal Kumar, PhD
		Thakur Sidhartha Sankar, PhD
02	Associate Professor	Acherjee Parimal , PhD
		Koley Chiranjib,PhD
		Mahato Sankar Narayan , PhD
		Saha Tapas, PhD

Sl. No	Name of the post	Name
03	Assistant Professor	Barman Jitesh Ch.
		Bhowmik Partha Sarathee, PhD
		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 Electronics and Communication Engineering

Sl. No	Name of the post	Name
01	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
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., PhD
		Layek Apurba, PhD
		Mitra Ambuj Kr
		Mukhopadhyay Sumit, PhD
		Hui Nirmal Baran, PhD
		Puri Asitbaran, PhD
		Pramanik Achinta Kr, PhD
		Roy Shibendu Shekhar ,PhD

Sl. No	Name of the post	Name
03	Assistant Professor	Barman Rabindra Nath, PhD
		Bera Biswajit
		Das Asim
		De Jagannath
		Karmakar Sujit, PhD
		Khan Kallol,PhD
		Mitra Ranjan Kr.
		Patari Animesh
		Pramanik Shantanu, PhD
		Rana Subhash Ch, PhD
04	Trainee Teacher	Akram Wasim
		Kumar Deepak

Department of Mechanical 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 detail of faculty positions are given in Annexure 11.5(a) to 11.5(d)

3.2 Non-academic Staff (Non-teaching)

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

3.3 Training Status

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

3.4 Placement of Staff for Academic excellence

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

4 TEACHING PROGRAMMES

- Programmes Offered
- Programme-wise Enrolment with Sex, Caste Break-up
- Admission Statistics – UG/PG Programmes
- Students' Total Strength
- The Hostels
- Scholarships/Assistance
- Games and Sports
- Awards
- Examination Details
- Training and Placement

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 2015-2016 Session (Genderwise):

Vide Annexure 11.8(b) 1.

4.2 A2. Enrolment in B. Tech. Programmes during 2015-2016 Session (Castewise):

Vide Annexure 11.8(b) 2.

4.2 B1. Enrolment in M. Tech. & M. Sc. Programmes, 2015-2016 (Gender wise):

Vide Annexure 11.8(b) 3.

4.2 B2. Enrolment in M. Tech. & M. Sc. Programmes, 2015-2016 (Caste wise):

Vide Annexure 11.8(b) 4.

4.2 C1. Enrolment in MCA Programme during 2015-2016 Session (Gender wise):

Vide Annexure 11.8(b) 5.

4.2 C2. Enrolment in MCA Programme during 2015-2016 Session (Caste wise):

Vide Annexure 11.8(b) 6.

4.2 D1. Enrolment in MBA Programme during 2015-2016 Session (Gender wise):

Vide Annexure 11.8(b) 7.

4.2 D2. Enrolment in MBA Programme during 2015-2016 Session (Caste wise):

Vide Annexure 11.8(b) 8.

4.2 E. Enrolment of Research Scholars for PhD work during 2015-2016 (Full time & Part time):

Vide Annexure 11.8(b) 9.

4.3 Admission Statistics – UG/PG Programmes

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

4.4 Students' Total Strength

Sl. No	Name of the programme	Total Number of Students
1	Bachelor of Technology	3265
2	Master of Technology	572
3	Master of Computer Applications	221
4	Master of Business Administration	67
5	Master of Science	71
6	PhD	810
	TOTAL	**5006**

4.5 The Hostels

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

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

4.6 Scholarships/Assistance

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

4.7. Games and Sports

The Institute organized various intra NIT tournaments through out the year in the fields of football, volleyball, basketball, table tennis, cricket, chess, Tennis, Badminton and athletics.

In the year 2015-2016 Institute participated in the following All India Inter NIT Games & Sports meet.

1. All India Inter NIT Table Tennis & Chess tournaments (Men & Women) at NIT Silchar during October 16-18, 2015.
2. All India Inter NIT Sports in Football (Men) at NIT Rourkela during February 12-14, 2016.
3. All India Inter NIT Track & Field (Men & Women) and Body Building Meet (Men) at NIT Jaipur during February 26-28, 2016.
4. All India Badminton, Volleyball (Men & Women) & Tennis (Men) tournaments at NIT Surat during March 11-13-2016.
5. All India Inter NIT Hockey & Swimming Tournaments (Men) at NITK Surathkal during March 18-20, 2016.
6. All India Inter NIT Basketball (Men & Women) and Cricket (Men) tournaments at NIT Culicat during March 26-29, 2016.

4.8 Awards

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

4.9 Examination Details

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

SGPA- CGPA System

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

90 and above: Ex (10); 80-89: A (9); 70-79: B (8); 60-69: C (7); 50-59: D (6); 40-49: P (5). Below 40 in theory subject or below 50 in sessional/

laboratory: F (0). Failure in Sessional / laboratory is required to repeat the semester through readmission. In case of absent in end-semester examination: X (0).

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

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

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

4.10 Training and Placement

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

5 RESEARCH & DEVELOPMENT ACTIVITIES

- Proposed Plan for Research
- Details of PhDs done so far
- Institute-Industry Collaboration
- Innovations and Technology Transfer
- Workshops/Seminars Organised by the Institute (2013-14)
- Collaboration with Academic and Research Institutions

5.1 Proposed Plan for Research

Proposed Plan for Research

Vide Annexure – 11.4(g) 1

5.2 Details of PhDs done so far

Vide Annexure - 11.4(h) 1

5.3 Institute-Industry Collaboration during 2015-16

Department of Biotechnology

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

Chemical Engineering

Collaborating Institute / Organization	Areas of collaboration	Collaboration Activities
Saudi Basic Industries orporation, Bangalore, Prof. C. M. Narayanan	Algal Oil Utilisation	Biodiesel from algal oil

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
Berger Paints India Ltd., West Bengal	Collaborative research	Collaborative research leading to M. Tech Degree

Department of Metallurgical & Materials Engineering

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

5.4. Innovations and Technology Transfer

Patent filed during 2015-16

Department of Chemical Engineering

Title	Inventors	Application No.	Date of filing
A New Membrane Integrated Closed Loop System For Treating Complex Industrial Waste Water Towards Recovery And Reuse	Prof. Parimal Pal	1255/KOL/2015	

Department of Electrical Engineering

Title	Inventors	Application No.	Date of filing
Stable rotation of a magnetically levitated ferromagnetic cylindrical body	Banerjee S	1429/KOL/2012	19.12.2012. Publication Date :20.6.14

Department of Mechanical Engineering

Title	Inventors	Application No.	Date of filing
Damper with Variable Orifice for Automobile Suspension	Anirban C.Mitra N. Banerjee	3481/MUM/2014	

Department of Mechanical Engineering

Title	Inventors	Application No.	Date of filing
Stable dispersion of surface capped silver nanopowder in hydrophilic medium with enhanced thermal conductivity	M. M. Ghosh, S. Ghosh, and S. K. Pabi	1068/KOL/2009	17th August, 2009

5.5 Workshops/Seminars Organised by the Institute (2015-16)

Department of Biotechnology

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	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, IIEST 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. B. K. Dutta Prof. R. Das Abhiram Hens Dr. J. Chakraborty Prof. T. Mandal S. Paruya Dr. B. Das	A Summer Course on Design and Optimization of Heat Transfer Device	August, 3-6, 2015
2	Swapan Paruya Tarkeshwar Kumar	National Symposium on Multiphase Flow (NSMF 2016)	February 22-24, 2016

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
3	Prof C. M. Narayan	All India Students' Engineering Congress -2015	January 30 - 31, 2015
4	Prof C. M. Narayan Dr. G. H. Halder	Golden Jubilee International Conference on Recent Development in Chemical and Biochemical Engineering (GJIC-2015)	October 2-4,2015
5	Dr. Gopinath Halder Prof. T. Mandal Dr. Bimal Das	TEQIP-II & DST-Govt. of W.B sponsored, 4th One week Short Term Program on Recent Advancement in Upstream and Downstream Operation of Petroleum Industries UDOPI-2016	June 13-17, 2016

Department of Chemistry

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. Tapan Kr. Paine, University of Calcutta	Seminar on Dioxygen activation by Nonheme Iron Enzymes and model complexes under EAP, TEQIP-II	06.04.2015

Department of Civil Engineering

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. Pronab Roy (Course joint coordinator)	Self-sponsored short-term course on "Open Source Software for Scientists and Engineers" (OSSSE 2015)	December 07-11, 2015
2	Dr. Pronab Roy Workshop coordinator	ISTE STTP on " Introduction to Structural Engineering	January 04-09, 2016.
3	Prof. T K Datta, Ex. Emeritus Professor IIT Delhi Dr. Rana Roy, IIEST, Shibpur Dr. Diptesh Das, NIT Durgapur Dr. Pronab Roy, NIT Durgapur	International Conference on International Conference on Advances in Dynamics, Vibration and Control	February 25-27, 2016

Department of Computer Science and Engineering

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. Partha Pratim Chakrabarti, IIT Kharagpur. Prof. Partha Pratim Das,IIT Kharagpur. Prof. Pallab Dasgupta, IIT Kharagpur.	Two Week ISTE STTP on Introduction to Design of Algorithms	May 25-30, 2015

Department of Electronics and Communication Engineering

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. B N Biswas, Prof. A Chakaborty Prof. Debatosh Guha Prof. D R Poddar, Prof. R K .Mishra	TEQIP II sponsored workshop Electromagnetic Theory and Applications Organized as Co-Coordinator	08-12 July 2015
2	Prof. Chee-Wee Liu, National Taiwan University, Taiwan Prof. S. Datta (Jadavpur University), Prof. Baidyanath Biswas, Retd. Prof.Univ of Burdwan Prof. Dilip Kumar Pratihar, IIT Kharagpur Prof. Amitava Dasgupta, IIT Madras Prof. Debatosh Guha, Institute of Radio Physics and Electronics, CU. Prof Siddheswar Maikap, CGU, Taiwan Padmashri Prof Sankar Kumar Pal, Former Director, ISI Kolkata	IEEE International Conference on Microelectronics, Computing and Communication (MicroCom 2016)	January 23-25, 2016

Department of Management Studies

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Prof. Narayan C. Debnath, USA Prof. Chandan Mazumdar, J.U. Prof. Swapan Bhattacharya, J.U., Prof. KalyanChakraborty, USA Prof. TathagataBandyopadhyay, IIMA Prof. NitisMukhopadhyay, USA Prof. ShekharChaudhuri, IIMC Prof. Jaydeb Sarkhel, B.U. Prof. Debmalya Dutta, B.U. Prof. Sudip Ghosh, USA Prof. Sripati Mukherjee, B.U. Prof. Jyotsna Kumar Mandal, K.U. Prof. Utpal Biswas, K.U.	3rd International Conference on Business and Information Management(ICBIM)	January 9-11, 2016

Department of Mathematics

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Yew-Soon Ong, Nanyang Technical University, Singapore HisaoIshibuchi, Osaka Prefecture University, Japan Sanghamitra Bandyopadhyay, Indian Statistical Institute, Kolkata Debanik Roy, BRNS, Department of Atomic Energy, INDIA Dominik Slezak, University of Warsaw, Poland PawanLingras, Saint Mary's University, Canada	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	16-18 November, 2015
2	Pinaki Pal, NIT Durgapur, India Supriyo Paul, A. C. College, Galpaiguri, India	Short term course on Nonlinear Dynamical Systems	December 14-18, 2015
3	Anita Pal, NIT Durgapur, India Satya Bagchi, NIT Durgapur, India	One week self-sponsored course on "Recent advances in graph theory, fuzzy graph theory and coding theory", RAGFCT-2016	January 25-29, 2016
4	Soumitro Banerjee, IISER Kolkata India Krishna Kumar, IIT Kharagpur, India	4th International Conference on Complex Dynamical Systems and Applications	February 15-17, 2016

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Yew-Soon Ong, Nanyang Technical University, Singapore HisaoIshibuchi, Osaka Prefecture University, Japan Sanghamitra Bandyopadhyay, Indian Statistical Institute, Kolkata Debanik Roy, BRNS, Department of Atomic Energy, INDIA Dominik Slezak, University of Warsaw, Poland PawanLingras, Saint Mary's University, Canada	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	16-18 November, 2015
	Sudeshna Sinha, IISER Mohali, India; Syamal K. Dana, IICB Kolkata, India; Ulrike Feudel, Carl von Ossietzky University, Germany; Istvan Z. Kiss, Saint Louis university, USA; Jordi Soriano Fradera, University of Barcelona, Spain; Jesus Gomez-Gardenes, Universidad de Zaragoza, Spain	Applications	

Department of Metallurgical & Materials Engineering

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
1	Dr. Amit Ganguly (Convenor)	International Seminar on Innovative Technologies for Clean, Green & Automated Steel Plants: A Better Tomorrow*2	10th-11th Sept 2015
	Dr. D.K Mondal (Convenor)	International Seminar on Innovative Technologies for Clean, Green & Automated Steel Plants: A Better Tomorrow*2	10th-11th Sept 2015
	Dr. Durbadal Mandal (Steering Committee Member)	International Seminar on Innovative Technologies for Clean, Green & Automated Steel Plants: A Better Tomorrow*2	10th-11th Sept 2015

Department of Physics

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
	Prof. Partha Ghose	Prof. M. S. Sinha Colloquium held at NIT Durgapur	March 04, 2016

5.6 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 (CaledonianCollege 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

Sl. No	Name of Key Speaker(s)	Name of the Programme	Date of the programme
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
Geological Survey of India, Kolkata	Research projects on subsurface sediment/ groundwater microbiology	Kazy S.K, NIT Durgapur; Sar P., IIT Kharagpur Pal T., GSI, Kolkata	Research
IARI, New Delhi	Research on Production of Novel Enzymes	Dutta D., NIT Durgapur, Lata, IARI, New Delhi	Joint research
Indian Institute of Technology 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
Caledonian College of Engineering Muscut, Oman	Industrial and Municipal Water Treatment of Oman	Sarkar J.P Firoz Shaik	Collaborative research & publication
Caledonian College of Engineering, Muscat, Sultanate of Oman	Biogas Synthesis	Narayanan, C.M.	Collaborative research and publication
Dalhousie University, Canada	Torrefaction of Biomass	Sadhukhan A. K. Gupta P.	Collaborative Research & Publication
iBET and New University of Lisbon (UNL) (Portugal)	Water for Health	Mandal M. K.	Collaborative research & publication
IIT Madras, Chennai	Nonlinear dynamics, chaos and applications to two-phase systems	Paruya, S.,	1. Exchange of ideas through visits 2. Joint publications 3. Joint proposals for funding
KU Leuven, Belgium	Phycoremediation Technology and Modelling	Dutta, S.	Collaborative Research Work and Publication
Lappeenranta University of Technology, Finland	Waste Management	Pal P.	Collaborative research & publication in Elsevier Sc
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
UIET-MDU, India	Water for Health	Mandal M. K.	Collaborative research & publication
Universite catholique de Louvain (Belgium)	Water for Health	Mandal M. K.	Collaborative research & publication

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. Nagesswara Rao, G. Moi, S.C.	Experiments are going on
Burdwan University; B.B. College, Assansol	Collaborative Research	Maiti, T.K. Pandey,S. Chakrabarty, J.	Paper publication
Central Institute of Mining & Fuel Research, Dhanbad	Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules	Panja S.S and Ghosh A. K.	Spectroscopic study of Molecular Complex Formation Between Coal Asphaltene and different acceptor molecules.
Civil Engineering Department North Dakota State University, USA.	Water and Wastewater Treatment	Bezbaruah A. N. Saha R.N.	Research on "Synthesis of Advanced Nano-materials and their Application for the Reduction of Environmental Contaminants"
Colloids and Materials Chemistry Department, CSIR-IMMT, Bhubaneswar, Odisha	Environmental Application of Nano Materials	Chatterjee Sriparna, Saha R. N.	Joint Supervisor for Ph.D Work, Paper publication
CSIR-CMERI	Designing and investigating the effect of organic corrosion inhibitors	Banerjee, P., and Sukul, D	Publication of papers
CSIR-IICB, Kolkata	Publication of book chapter	Dungdung, S. Chakrabarty, J.	Publication of book chapter
Department of Chemistry University of California, Davis, CA 95616, USA	Crystal structure determination	Prof. Marilyn M. Olmstead Patra A.K.	Single crystal X-ray Diffraction studies on the metal complexes with supporting Schiff base, Amide ligand
Department of Inorganic Chemistry, Ind ian Association for the Cultivation of Science, Kolkata, India	Crystal structure determination	Mitra Partha Patra A.K.	Single crystal X-ray Diffraction studies on the metal complexes with supporting tridentate Schiff base ligand
Dept. of Chemistry, Cotton College, Assam	Development of natural fibre reinforced polyester composite material	Choudhury S. Panja S. S.	Jointly supervising Ph.D student

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Dept. Of Environmental Science, The University of Burdwan, West Bengal	Water and Wastewater Treatment	Gupta S. Saha R. N.	Jointly supervised the Ph.D students in the areas on Environment management.
IISc Bangalore	Developement of Microwave absorber	Bose Suryasarathi Panja. S. S.	Collaborative research
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. Rocquefelte, Xavier Moi, S.C.	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. Kubel, Frank Moi, S.C.	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 Monkowius U	Chemical sensing of various analytes by Schiff base ligands
Microbiology Research Unit, Parasitology Research Laboratory, Department of Zoology, The University of Burdwan, Burdwan-713104, West Bengal, India	Biological activities of the synthesized metal complexes	Chandra Goutam Patra A.K.	Antibacterial and other biological studies on synthesized metal complexes of various Schiff base and amide ligands
Raghunathpur College	Synthesis and characterisation of Coordination compounds	Biswas Bhaskar Maji, M.	Paper publication and guiding Ph.D. students
School of Medical Science and Technology, IIT Kharagpur	Collaborative Research	Chatterjee, Jyortirmoy Chakrabarty, J.	Paper publication
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	Linert W. Moi S.C.	Biomolecular substitution kinetics in 4d8 and 5d8 metal ion system 8 research papers has been published in SCI Journals

Department of Civil Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Deparment of Civil and Environmental Engineering, University of Surrey, UK	Pipe-soil I interaction, Offshore pipelines	Roy, P.	Research
SoA University, Bhubaneswar	Research on Seismic Loss Estimation for Bhubaneswar based on Shear wave	Dr. R.P.Nanda, NIT Durgapur Dr.K.C.Panda, ITER, SoA Univ.	Joint Research
IIEST Shibpur	Vibration, Control & Anti-control Vibration using Time Delayed Feed-back	Dr. A K Banik NIT Durgapur Prof. S. Chatterjee IIEST Shibpur	Joint Research Guidance

Department of Computer Science and Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute (CMERI), Durgapur	EHD Inkjet Printing	Kisku, D.R., NIT Durgapur, Roy, S.S., NIT Durgapur Murmu, N.C., CMERI, Durgapur	Joint Research
Indian statistical Institute, Kolkata	Computational Geometry	Sanjib Sadhu, Dept. of CSE, NIT Durgapur Dr. Suchismita Roy, Dept. of CSE, NIT Durgapur. Dr.S.C. Nandy, ISI Kolkata. Dr. Sasanka Roy, ISI Kolkata	Joint Research

Department of Electrical Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Central Mechanical Engineering Research Institute, Durgapur	Research on DGA, Gas Sensors	Roy N.K.	Joint research
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
Central Mechanical Engineering Research Institute, Durgapur	Control Systems, Power Electronics	Banerjee S (NIT), Giri S (CMERI) Saha S (CMERI)	Joint Research
IIT Kharagpur	Power Electronics, Multilevel Converters	Banerjee S (NIT) Chakroborty C (IIT)	Joint Research
NUS Singapore	Control of power electronics converter	Banerjee S Panda S	Collaborative Research
NITTTR kolkatta	Maglev, AMB	Banerjee S Sarkar P	Joint Research
Central Mechanical Engineering Research Institute, Durgapur	Control Systems, Power Electronics	Saha T. K. (NIT), Mukherjee A (CMERI)	Joint Research.

Department of Electronics and Communication Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Chang Gung University Taiwan	Memory Devices	Mahapatra R	Joint r esearch

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	Research
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
CSIR – Indian Institute of Chemical Biology, Kolkata	Nonlinear Dynamics	Pal, P, NIT Durgapur and Dana, S.K. of IICB Kolkata	Joint Research
Indian Institute of Technology Kharagpur	Convective Instability	Pal, P, NIT Durgapur and Kumar, K. of IIT Kharagpur	Joint Research
ICBM, Carl von Ossietzky University, Germany	Nonlinear Dynamics	Pal, P, NIT Durgapur and Feudel, U. of ICBM	Joint Research
Jadavpur University, Kolkata	Functional Analysis	Dey, L.K., NIT Durgapur and Das, Pratulananda of Jadavpur University	Joint Research
University of Pristina-Kosovska-Mitrovica, Serbia	Fixed Point Theory	Dey, L.K., NIT Durgapur and Djekic, D.D. of University of Pristina-Kosovska-Mitrovica	Joint Research
Department of Mathematics, Aliah University	New Topological Indices of Graphs	Pal, A., NIT Durgapur andNayeem, 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
Dept of Mathematics Haldia Institute of Technology, East Midnapore,WB	Soft Computing	Panigrahi G NIT Durgapur And Jana DipakHIT,Haldia	Joint Research
Dept of Operations Management TA PAI Management Institute,Manipal	Management	Panigrahi G ,NIT DGP and ChattrejeeDebmalya	Joint Research
Department of Mathematics Sidhu KanuBirsaUniversity,WB	Soft Computing	Panigrahi G, NIT DGP and DrBarun Das	Joint Research
Department of Mathematics Mugberia College, East Midnapore, WB	Bio Mathematics	Panigrahi G NIT DGP and Dr. KalipadaMaity	Joint 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
IIEST,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
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
Central Mechanical Engineering Research Institute , Durgapur, India	Design and Robotics	Basak I.	Joint research

Department of Metallurgical and Materials Engineering

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
CSIR-National Metallurgical Laboratory, Jamshedpur (with Dr. Sahoo K.L)	Effect of Strain Induced Melt Activation (SIMA) Process on Microstructure and Mechanical Properties of Al-Si alloys Modified by Al-5Ti-1B Grain Refiner	Mandal D.	Ph.D Project Work
School of Materials Science and Engg., IIEST, Shibpur (with Dr. Das D.)	CNT dispersed Al-based alloy composite	Mandal D. & Bera S.	M. Tech. project work
CSIR-National Metallurgical Laboratory, Jamshedpur (with Dr. Mandal G.K.)	High Temperature Materials	Mandal .D	M. Tech. project work
CSIR-CMERI, Durgapur (with Mr. Das P)	Heat treatment response of composite	Mondal M.K.	M. Tech. project work
School of Materials Science and Engg., IIEST, Shibpur (with Dr. Sinha Arijit)	Al-based intermetallic dispersed composites	Bera S.	M. Tech. work
School of Materials Science and Engg., IIEST, Shibpur (with Dr. Das D.)	Al alloy composites	Bera S.	Collaborative research work
CSIR-CMERI, Durgapur	Al alloy base Composite	Mondal M.K	Collaborative research work

Department of Physics

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
Burdwan University	Electronics and Communication	Mondal M.K.	Joint Research
Burdwan University	Nonlinear Optics	Kumbhakar P.	Joint Research/ publication of paper
CSIR-CGCRI, Kolkata	Nanomaterials	Chakraborty A.K.	Materials characterization & organization of joint conference
CSIR-CMERI, Durgapur	Multiferroics materials	Basu S.	Joint Research
CSIR-CMERI, Durgapur	Nanotechnology	Kumbhakar P.	Joint Research/ Joint PhD Guidance
CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi	Electrochemistry	Chakraborty A.K.	Visit of PhD student for three months
EMPA, Swiss Federal Laboratories for Materials Science & Technology	Graphene reinforced Epoxy composites	Chakraborty A.K.	Joint PhD program through a MOU
Federal University of São Carlos, Brazil	Nanoelectronics	Mondal A	Sample characterisation,joint research
GSI, Lucknow	Geothermal exploration at Bakreswar geothermal area	Chaudhuri H.	Joint Research
IACS, Kolkata	Nanomaterials, Multiferroics	Basu S.	Joint Research
Indian Institute of Science, Bangalore	Synthesis and Characterization of Nanomaterials	Kumbhakar P.	Joint research under UGC-NRM
IISER, Kolkata	Seismo-geochemical modeling of Tatta Pani geothermal area	Chaudhuri H.	Joint Research
IIT, Kharagpur	Nanomaterials & nanocomposites	Chakraborty A.K.	Nanocomposite characterization
Jagadish Bose National Science Talent Search (JBNSTS), Kolkata	Lead free solder joint interface	Chakraborty A.K.	Joint PhD student

Collaborating Institute / Organization	Areas of Collaboration	Faculty Members Involved	Collaboration Activities
NASA Ames Research Center, California, USA	Global Earthquake Forecasting System		Joint Research
National Institute of Technology, Raipur	Condensed Matter Physics	Sahoo S.	Joint Research
Regional Institute of Education, Bhubaneswar (NCERT)	Nuclear Physics, Physics Education & General Physics	Sahoo S.	Joint Research
Rice University, USA	Nanotechnology	Kumbhakar P.	Joint Research/ publication of paper
Saha Institute of Nuclear Physics	Nanotechnology	Mondal A.	Joint Research
Sikkim Manipal Institute of Technology (SMIT), Majitar, Sikkim	Graphene based gas sensors	Chakraborty A.K.	Joint PhD student
TDB College, Raniganj	Nuclear Physics	Sahoo S.	Joint Research
The Open University, Milton Keynes, UK	Graphene based solar cells	Chakraborty A.K.	Several PhD student exchanges
University of Nottingham, UK	Nanoelectronics	Mondal A.	Sample characteri-zation, joint research
University of Kalyani	Characterisation of nanostructured materials	Chakraborty A.K.	Materials characterization
University of Liverpool, United Kingdom	Surface chemical studies of graphene based polymer and metal oxide composites	Chakraborty A.K.	Joint research, sponsored faculty visit under Liverpool India Fellowship award
Utkal University, Bhubaneswar	Theoretical High Energy Physics	Sahoo S.	Joint Research
Visva-Bharati University, Shantiniketan	Optical properties of Polymer nanocomposite	Chakraborty A.K.	Joint Research

6 THE COUNCIL, BOG AND OTHER COMMITTEES

- Institute's Council
- Board of Governors
- Finance Committee
- Building and Works Committee
- Other Committees

6.1 Institute's Council

Vide Annexure - 11.11

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 CONCESSIONS FOR SC, ST AND HANDICAPPED STUDENTS

- Concessions Provided for 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 FINANCIAL STATUS

- Analysis of Plan and Non-Plan Grants (2015-2016)
- Sources of Funds

8.1 Analysis of Plan and Non-Plan Grants (2015-2016)

Plan (General Component) Grants – Rs. 5300.00 Lakhs

Non-Plan (Recurring) Gran ts – Rs. 6000.00 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	2495.36	2014-15	7573.72
2015-16 (Unaudited)	4750.82	2015-16 (Unaudited)	8092.35

9 CENTRAL FACILITIES AND SERVICES

- Computer Centre
- Workshops
- Library
- Laboratories
- Hospital, Post Office, Shopping Centre
- Physical Facilities
- Games & Sports Facilities
- Other Facilities like: Hostels, Messes, Staff Quarters

9.1 Computer Centre

Software :

1. ANSYS 17.4
2. PSIM (Power Simulator)
3. MATLAB & SIMULINK R16a (25 Users); MATLAB & SIMULINK R14a (10 Users)
4. COMSOL (Multi-Physics)
5. AUTOCAD 2016 (Free Educational Licensed)

Hardware :

(Following Desktop PCs are installed in 4 Class Labs, one PG Lab and 1 Research Lab)

1. HP Elite Desk 800G – Intel core i5; 3.5 GHz; 4 GB RAM – 60 nos.
2. Lenovo Thinkcentre Core i5 Vpro(3.3 GHz; 2GB RAM) – 60 nos.
3. Lenovo (ThinkCentre) M58p - Intel Dual Core (3.0 GHz), 2 GB RAM – 17 nos.
4. Dell Optiplex 755 Core2 Vpro : 3.0 GHz, 2 GB RAM - 7 nos.
5. Dell Optiplex 755 Core2 Duo : 1.80GHz, 1 GB RAM (+ 1GB later) - 13 nos.

SERVER :

Dell Server- power edge Model:R720 (rack mounted) – 1 no.

Scanner :

Cannon Lide25; Epson GT15000

Internet Services:

Campus wide network covering all departments, hostels, faculty quarters, and staff club has beencompleted with about 6 kmsFiber Optic Cable as a backbone with about 4500 CAT-6 UTP points.Three ISP's have been providing 250 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 1,65,746 volumes, which includes text books, reference books & bound volumes of Journals, Standards etc. The library subscribes to about 121 current Journals/ Magazines. 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 9:30 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, and e-Sodh Sindhu Consortium which provides Desktop Access to high quality e-resources (online journals) like

E-Journals/E-Books/ Databases are as follows:

Subscribed Resources	Name of Resources
E-Journals / Database/ Standard	IEEE, (IEL online), Springer Collection, Taylor & Francis, Science Direct, ASCE , ASME, Wiley Online, RSC Gold, Emerald Enhanced, ACM Digital Library, AIP,PNAS, ISID, Project MUSE, Nature, ASTM Standard, Mathscinet, Jgate Plus, JSTOR, Oxford, Web of Science, Economic & Political Weekly.
E-Books	Elsevier Collection, Springer LNCS Collection, Oxford eBooks Collection

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 Collection available through website.

Total collection of books, journals, etc. and the annual expenditure are as detailed below:

(i) Total Collection	General Book Book Bank Bound Vol. of Journals SC/ST ISI Gift Misc. TEQIP Books	104310 37804 7744 934 5072 4153 1485 4244
	Total	1,65,746
(ii) No. of Journals Subscription	Foreign (e-journals / databases through e-Sodh Sindhu Consortium)	
	Indian	86
	Gift	35
	Total	**121**
(iii) No. of Books Catalogued, Classified and Processed	General Book Bank	5676 320
	Total	**5996**
(iv) Expenditure Incurred by the Library during 2015-16	BOOKS (In Rs.)	1,34,08026.00
	General Books	1,30,40908.00
	Book Bank	3,67,118.00
	JOURNALS/MAGAZINES	(in Rs.) 73,17,08.00
	Foreign : E-Resources	73,17,908.00 (Institute Subscribed + e-Sodh Sindhu Consortium)
	DELNET Membership	11,500
	LIBSYS Annual Support 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 and Shopping Centre

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

9.6 Physical Facilities

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

9.7 Games & Sports Facilities

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

9.8 Other Facilities like Hostels, Messes and Staff Quarters

The Institute has seven boys' hostels and three (including the new 264 seated) hostels for girls' students. Each hostel has a separate mess, managed and run by the members of the mess committee comprising of the students under the supervision of the Mess Managers/ Matrons and overall guidance of the Wardens of the respective hostels. The Institute provides different categories of residential quarters to the faculty, staff and administrative personnel on licence fee basis.One multi-storeyed accommodation (G+8) for faculty members is completed consisting of 32 numbers of quarters. The construction of Prof. S. N. Ray memorial building is completed 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 a 1500 capacity Auditorium and International students Hostel is in progress.

10 NOTABLE PAST ACHIEVEMENTS

❖ Computer

10.1 Computer

- 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 sposoring five scholarships to UG students.
- NIT Durgapur mentored NIT Arunachal Pradesh and GKCIT, Maldah.

ANNEXURE

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. Amalendu Bhushan Bhattacharyya Chairperson, Board of Governors, National Institute of Technology, Durgapur	Chairman
02.	(b)	Prof.Asok De, Director, (Additional Charge), National Institute of Technology, Durgapur-713209 Prof. Tarkeshwar Kumar (Till 30_11_2015) Director, National Institute of Technology, Durgapur-713209	Ex-Officio Member 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)	Prof.Partha Pratim Chakrabarti Director, Indian Institute of Technology, Kharagpur India, Pin-721302	
06.	(e)	Mr. Sanjay Jhunjhunwala Chief Executive Officer, Mani Group (From 14.10.2014)	Member
07.	(e)	Prof. Avijit Chakrabarti Professor, Saha Institute of Nuclear Physics, 1/AF, Bidhan Nagar, Kolkata – 700 064	Member (till 08-09-2014)
08.	(f)	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)
09.	(f)	Prof. S.P. Ghoshal Professor, Department of Electrical Engineering, National Institute of Technology, Durgapur.	Member
10.	(g)	Dr. Arup Kumar Biswas Associate Professor Department of Mechanical Engg. NIT Durgapur	Member
10.	Section 18 Clause (2)	Brig. A. S. Nijjar Registrar, National institute of Technology, Durgapur	Secretary

Annexure-11.3(a) Finance committee

01.	Prof. A. B. Bhattacharyya, Chairperson, Board of Governors, National Institute of Technology, Durgapur	Chairman
02.	Prof.Asok De, Director, (Additional Charge), National Institute of Technology, Durgapur	Member
03.	Prof. Tarkeshwar Kumar (Till 30-11-2015) Director, National Institute of Technology Durgapur - 713209	Member
04.	Joint Secretary (TE), Govt. of India Ministry of Human Resource Development, Dept. of Higher Education Shashtri Bhawan, New Delhi – 1 10 001	Member
05.	Joint Secretary, Integrated Finance Division Govt. of India Ministry of Human Resource Development, Dept. of Higher Education Shashtri Bhawan, New Delhi – 110 001	Member
06.	Prof. S.P. Ghoshal Professor, Department of Electrical Engineering, National Institute of Technology, Durgapur. Representative of BOG	Member
07.	Brig. A. S. Nijjar, Registrar, National institute of Technology, Durgapur	Member Secretary

Annexure-11.3(b) Building and Works committee

1.	Prof.Asok De (From Dec 2015) Director (Additional Charge), National Institute of Technology Durgapur – 713 209	Chairman
	Prof. Tarkeshwar Kumar (Till 30-11-2015) Director, National Institute of Technology Durgapur – 713 209	
2.	Shri Sanjeev Sharma, Director (NITs), Ministry of Human Resource Development, Department of Education, ShastriBhavan, New Delhi – 110001	Member
3	Shri Rajesh Singh, The Director (F), Integrated Finance Department (IFD), of Higher Education, Ministry of Human Resource Development, ShastriBhawan, New Delhi – 110001	Member
4	Shri Arun Kuman Bhadra, (Nominee of PWD, Electrical Wing), Chief Engineer (Electrical) – I, Public Works Directorate (PWD), Writers' Building, Kolkata – 700 001.	Member
5	Shri Satyaki Sen, Nominee of BOG, NIT Durgapur, CJ 84, Sector – 2, Saltlake City Kolkata – 700 091	Member
6	Shri UjjalMitra (Nominee of CPWD, Electrical Wing) Superintending Engineer (Electrical), Kolkata Central Electrical Circle – 1, Central Public Works Department (CPWD), 234/4, Acharya J. C. Bose Road, Kolkata – 700 020.	Member
7	Shri Ajay Kumar, (Nominee of CPWD, Civil Wing) Superintendent Engineer cum Project Manager, NIT Durgapur Project Cirlce, Central Public Works Department (CPWD), NIT Campus, Durgapur- 713 209	Member
8	Prof. K. Bhattacharya, Prof. of CE Department & Dean (P&D), National Institute of Technology Durgapur, Durgapur – 713 209	Member
9	Brig. A. S. Nijjar, Registrar, National Institute of Technology Durgapur, Durgapur – 713209	Member-Secretary

Annexure-11.3(c) List of Senate members as on 31/03/2016

NAME	E-MAIL ADDRES	TELEPHONE
Prof. Asok De, Director (Additional Charge), National Institute of Technology Durgapur – 713 209 Director and Chairman-Senate Prof. Tarkeshwar Kumar (Till 30-11-2015) Director National Institute of Technology Durgapur – 713 209	director@admin.nitdgp.ac.in	
NOMINATED MEMBERS		
Sri S Chatterjee Managing Director Innovative Heat Handling Pvt. Ltd.' CG-106, Salt Lake City, Kolkata – 700 091	samiran45@gmail.com	9831016604
Dr. Maitree Bhattacharya, Director, JBNSTS, Kolkata – 700 107	director@jbnsts.org	9830306307
BIOTECHNOLOGY		
Prof A Dey	apurbadey2003@yahoo.co.in	9434788098
Prof S Chattopadhyay, Dean (Research & Consultancy)	sudipchatto@gmail.com	9434788029
Dr. K. Aikat, HOD	aikatk@yahoo.co.in	9434788140
CHEMICAL ENGINEERING		
Prof P P Gupta Dean (Alumni, International Relations & Outreach)	parthagupta2000@yahoo.com	9434788028
Prof P Pal	parimal pal2000@yahoo.com	9434788105
Prof T Mandal,	tamal.mandal@che.nitdgp.ac.in	9434788078
Prof C M Narayan	cmn_recd@yahoo.co.in	9434788106
Prof J P Sarkar	jp_sarkar@yahoo.co.in	9734734316/ 9333314987/ 9434788010
Prof A K Sadhukhan, HOD	anupkumar.sadhukhan@che.nitdgp.ac.in	9434788048
Prof K C Ghanta	kcghanta@yahoo.com	9474543416/ 9434788020
CHEMISTRY		
Prof B P Mukhopadhyay	bpmk2@yahoo.com	9434788031
Dr. Milan Maji, HOD	milan_maji@yahoo.co.in	9434788124

NAME	E-MAIL ADDRES	TELEPHONE
CIVIL ENGINEERING		
Prof S Saha	saha_soumen31@yahoo.co.in	9434788008
Prof D K Singha Roy	dsr_rec_dgp@yahoo.com	9434788039
Prof K Bhattacharya, Dean, P&D	kamal_goutam1960@yahoo.co.in	9732264594
Prof A Das	adas_wrpm@yahoo.com	0343-2547383
Prof P Ray	pramnitd@yahoo.com/ purnendu.ray@nitdgp.ac.in	9474051287/ 9434788037
Prof V K Diwivedi	vkdwivedi10725@yahoo.co.in	9800765341
Prof S Bhattacharya	soumya.bhattacharyya@ce.nitdgp.ac.in	9434788022
Dr. A. K. Banik, HOD	atul.banik@ce.nitdgp.ac.in	9434788101
COMPUTER APPLICATIONS		
Dr. Anirban Sarkar HOD	Sarkar.anirban@gmail.com	9434788195
COMPUTER SCIENCE AND ENGINEERING		
Prof G Sanyal	gs_comp@nitdgp.ac.in nitgsanyal@gmail.com	9474484866/ 9434788006
Dr Tanmay De, HOD	Tanmayd12@gmail.com	9434788123
ELECTRICAL ENGINEERING		
Prof S S Thakur	sst_nit_ee@yahoo.co.in	9434788023
Prof S P Ghoshal	spghoshalnitdgp@gmail.com	08768772887
Prof N K Roy	Roy.nk2003@gmail.com	9434788042
Prof S Ghosh Dean –Academic	sghosh.ee@gmail.com	9434788096
Prof S Banerjee, HOD	bansub2004@rediffmail.com	9434475974
Prof S K Dutta	skd_nit_ee@yahoo.co.in	0343-2547386
ELECTRONICS AND COMMUNICATIONS ENGINEERING		
Prof G K Mahanti	gautamkumar.mahanti@ece.nitdgp.ac.in gautammahanti@yahoo.com	9474600384
Prof A K Bhattacharjee, Dean, Student Welfare	akbece12@yahoo.com	9434788021
Dr. B. Maji	bmajiecenit@yahoo.com	9434788024
Prof R. Ghatak	rowdra.ghatak@ece.nitdgp.ac.in	9434147929
Prof S. Kundu, HOD	sumit.kundu@ece.nitdgp.ac.in	9434788127
EARTH & ENVIRONMENTAL STUDIES		
Prof. A. Gangopadhyay, Dean – Faculty Welfare	anijhth@yahoo.com	9434788033

NAME	E-MAIL ADDRES	TELEPHONE
Dr. Kalyan Adhikari, HOD	k_adh@yahoo.com	9434788091
HUMANITIES & SOCIAL SCIENCE		
Prof P P Sengupta, HOD	pps42003@yahoo.com	9434788045
INFORMATION TECHNOLOGY		
Dr. Debasish Nandi, HOD	debasishn2@gmail.com	9434788026
MANAGEMENT STUDIES		
Prof M Roy	mousumi.roy@dms.nitdgp.ac.in	9434788138
Dr. G. Bandhopadhyay, HOD	Math-gb@yahoo.co.in	9434788030
MATHEMATICS		
Dr. K Basu, HOD	kajla.basu@maths.nitdgp.ac.in	9434788132
MECHANICAL ENGINEERING		
Prof I Basak	basak_indrajit@yahoo.com	8900200404
Prof. N Banerjee	nil_rec@yahoo.com	9434788009
Prof M C Majumder	mem_secnit@yahoo.com	9434788018
Prof A K Saha	anupkumarsaha@gmail.com	9474786998
Prof B Halder, HOD	jeetarkaanik@gmail.com	9474113028/ 9434788027
Prof A Mullick	amarnath.mullick@me.nitdgp.ac.in	9434788052
METALLURGICAL AND MATERIALS ENGINEERING		
Prof S K Mitra	skmnitd@yahoo.co.in	9832212843/ 9434788005
Prof D K Mondal	dk_mondal2003@yahoo.co.in	9434788003
Dr. J. Maity, HOD	joydeep_maity@yahoo.co.in	9434788136
Prof. K S Ghosh	ksghosh2001@mme.nitdgp.ac.in	9475026411
Prof. A Ganguly Ministry of Steel Chair Professor of Metallurgy	ganguly_amit11@hotmail.com	9769037303
PHYSICS		
Prof A K Maikap	ajit.meikap@phy.nitdgp.ac.inmeikapnitd@yahoo.com	9434788060
Prof. Pathik Kumbhakar, HOD	pathik.kumbhakar@phy.nitdgp.ac.in	9434788090
Brig. A.S.Nijjar Registrar & Secretary of Senate	registrar@admin.nitdgp.ac.in	9434788102

Annexure - 11.4(a) Ongoing sponsored projects

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Use of biological process for production and treatment of important chemicals	Aikat, K. and Chaudhuri, S.	NIT Durgapur (RIG)	20 lakhs	2014
Role of a novel 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	2016
Investigattion 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
Approaches for the enhanced production of rapamycin (sirolimus) by Streptomyces hygroscopicus MTCC 4003	Dey, A	DBT	37.34 Lakhs	2016
Enteropathogens dampen innate immune response through inhibition of macrophage functions	Mahata, N.	NIT Durgapur (RIG)	10 lakhs	2016
Studying Fanconi Anemia; A Rare Disorder :For Understanding The Mitochondrial Roll in Genomic Insatbility and Cancer	Mukhopadhyay, S.S.	DBT	76 lakhs	2012
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
Phycoremediation of Cyanide from Coke-oven Wastewater and CO2 Sequestration from Waste gas using a Mixed Consortium of Green Algae and Cyanobacteria: An integrated approach	Dutta S. Dr. K. C. Ghanta	DST, Govt. of India	41.588 lakhs	2015
Isolation and Characterization of Micro-organisms/Micro-algae from North East region and Eastern Coal mines for Bio-Sequestration of CO2 and its Utilization towards Generation of Bio-fuel	Halder, G. N. Dr. M. K. Mandal	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. Dr. T. Mandal Dr. J. Sikder	DBT Govt. of India	48.0 lakhs	2013
Optimization on Defluoridation of Contaminated Groundwater by Bioremediation	Halder, G. N.	DBT Govt. of India	25.27 lakhs	2013
Production and purification of amino acid(L-Glutamic Acid) in a fully membrane-integrated hybrid reactor system under suitable conditions	Kumar Ramesh, DST Fellowship Mentor Prof. P Pal	DBT Govt. of India	30.57 lakhs	2013
Targeting the elimination of antineoplastic compounds in hospital wastewaters: novel frontiers in sustainable treatment	Mandal, M. K. Prof. P. Pal	DBT Govt. of India (INNO-INDIGO Project)	209.19 lakhs	2015
Nonlinear Dynamics of Bubble Growth and Collapse in Natural Circulation Boiling Loop	Paruya, S.	SERB-DST, Govt. of India	38.67 Lakhs	2013
Synthesis of Bioethanol from Sugarcane Bagasse in a Membrane – Integrated Hybrid System - A Green Technology Approach	Sikder, J. Dr. G. N. Halder	DBT Govt. of India	56.38 Lakhs	2014

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
DST/FIST Project Level 1 Phase-2	All Faculties of Chemistry	DST	210 lakhs	2015
Department of Chemistry				
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
Nickel Complexes Supported by N,S-Donor Ligands: Relevance to the Active Site of Acetyl CoA Synthase (Project no EMR/2014/001059)	Patra A.K.	DST, Govt. Of India	65 lakhs	2015
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				
Structural Health Monitoring	Datta, A.K., Topdar, P.	NIT Durgapur (RIG)	20.0	2014
Geosynthetic as seismic retrofitting	Nanda, R.P.	NIT Durgapur (RIG)	7.4	2014
Nonlinear Coupled Dynamic Analysis of Deep Water Floating Facilities	Banik A. K.	NIT Durgapur (RIG)	10.0	2014
Department of Computer Applications				
Remote Health: A Framework for Healthcare Services using Mobile and Sensor-Cloud Technologies	Anirban Sarkar (PI)	Information Technology Research Academy (ITRA) Ministry of Communications and Information Technology, Govt. of India	38.96 Lakhs	September 2014
Post-Disaster Situation Analysis and Resource Management Using Delay-Tolerant Peer-to-Peer Wireless Networks (DISARM)"	Sujoy Saha (Co-Investigator) (Other Institute: IIT KGP, IIM Kolkata, IIESTS, KGEC Kalyani, HIT Kolkta)	Information Technology Research Academy (ITRA) Ministry of Communications and Information Technology, Govt. of India	69.67 L	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)	Nandi, S., Saha, S. (CA) (Other Institute: IIT KGP, IIM Kolkata, IIESTS, KGEC Kalyani, HIT Kolkata)	ITRA, Media Lab Asia	Rs. 54.11 Lakhs	2013
Delay Tolerant Networks in aiding crucial real life situations	De, T.	NIT Durgapur (RIG)	10 lakhs	2014
Development of Computational Intelligence based Methodologies for Orienteering and Vehicle Routing Problem on Social Network	Pal, T.	NIT Durgapur (RIG Phase II)	10 Lakh	2016
Design and Verification of Cache Coherence Controller in Chip Multiprocessors	Dalui, M.	NIT Durgapur (RIG Phase II)	10 Lakh	2016
Automated Heterogeneous Face Recognition for Law-enforcement	Kisku, D.R.	NIT Durgapur (RIG Phase II)	9.46 lakh	2016
Department of Electrical Engineering				
Control of Stand-alone Induction Generators	Mahato S. N.	NIT Durgapur RIG	9.75 Lakh	2014
Development of Solar Power Drives	Saha T.K.	NIT Durgapur RIG	9.15 Lakh	2014
Development of advanced power quality monitoring system utilizing signal and data processing techniques	Bhowmik Partha Sarathee	NIT Durgapur RIG	9.98 Lakh	2016
Investigation on Nonlinearities associated with cardiovascular regulation linked with lipid metabolism	Halder Suman	NIT Durgapur RIG	9.88 Lakh	2016
Department of Electronics and Communication Engineering				
DST-FIST	All faculty of the department	Department of Science and Technology, Government of India.	Rs 108 lakhs	2011
Uncoordinated, secure and energy aware access in distributed wireless networks	Kundu, S.	ITRA, Department of Information and Technology	34 Lakhs	2014

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
HfO2-based resistive switching oxides for future non-volatile memory applications in silicon nanoelectronics	Mahapatra, R., Mal, A. K., Kar, R.	NIT Durgapur RIG	30 Lakhs	2014
SMDP C2SD	Mal, A. K., Mahapatra, R.	DeiTY		2014
Studies on Novel Optimization Techniques to Synthesize Radiation Pattern of Antenna Arrays	Mandal Durbadal(PI)	SERB - DST	34.792 Lakhs	2013
Design of Efficient Rectenna System to Harvest Ambient RF Energy	Mandal, S.K. (ECE), Mitra, D. (IT)	NIT Durgapur RIG	20 lakhs	2016
Department of Information Technology				
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 India	Rs. 1 Crore	2013
Department of Mathematics				
Homoclinic bifurcations in fluid systems	P. Pal	NBHM, India	6.08 lakhs	2015
Graph labeling and its applications	A. Pal	SERB, DST, India	17.91 lakhs	2015
Hybrid Modelling of Uncertainty Analysis in Environmental Risk Assessments	S. Kar	BRNS, DAE, India	16.05 lakhs	2013
Department of Mechanical Engineering				
Forward and Reverse Modelling of Flow Forming Process: Comparison between FE-based and SC-based Modelling	Hui N.B.	DRDL, Hyederabad	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 (in Rs)	Starting Year
Study on Structure Property Correlation of Pressureless Sintered ZrB2-Based Ultrahigh Temperature Ceramic Composites	Mallik Manab	DST-SERB	12 lakhs	2013
IN-VITRO and IN-VIVO Study of Electrochemical Behaviour of Dental Amalgams of Various States in Oral Environments	Prof. Ghosh K. S. (Mentor)	WOS-A, DST	16.99 lakhs	October 2013
MD-stochastic model based design and development of nanofluids for advanced heat transfer applications	Dr. Ghosh M.M.	DST	17.7 lakhs	2013
An investigation on accelerated spheroidization and mechanical property evaluation of high carbon steel under cyclic forced air cooling	Dr. Maity J. and Dr. Show B. K.	SERB-DST (Extra Mural (Individual Centric))	31.047 lakhs	2015
Wear Behaviour of Al-Si Alloys at Room Temperature and at Elevated Temperature	Dr. Show B.K.	DST-SERB	25.075 lakhs	2015
Department of Physics				
Centre of Excellence in Advanced Materials	Chakraborty, AK & Mondal, DK (MME) (PIs) and 10 Co-PIs	MHRD, Govt. of India	5 Crores	2013
Development of Polymer nanocom-posites with graphene nanoplatelets	Chakraborty, AK	DST, Govt. of India	27.6 Lakhs	2014
Graphene Assisted Low-cost Energy-efficient Solar-cell	Chakraborty, AK	DST-UKIERI(India-UK) jointly with Open University, UK	20.2 Lakhs	2014
Interface and load transfer in carbon nanostructure based epoxy nano-composites	Chakraborty, AK	Swiss Federal Lab for Material Sci .& Tech. (EMPA), Switzerland	25.2 Lakhs	2014

Title of the Project	Investigator(s)	Sponsoring Organisation	Amount (in Rs)	Starting Year
Pedagogy Research Project on "Optoelectronics based Instrumentation", Main phase	Kumbhakar, P. (Principal Developer) & Mandal, M. K.	MHRD through MLM Project, IIT KGP	---	2013
Pedagogy Research Project on "Fundamental of Photonics and Optoelectronics", Main Phase	Kumbhakar, P.(Principal Developer) & Mandal, M. K.	MHRD through MLM Project, IIT KGP	---	2013
Development and characterization of semiconductor nanostructures to obtain nanomaterials with enhanced photoluminescence and photocatalytic properties	Kumbhakar, P.(PI)	CSIR	19.17 Lakhs	2015
Modernization & setting up of Physics Laboratory	Meikap,A K (Co-ordinator) & all faculty are members	DST-FIST	82.00 Lakhs	2012
Development and Characterization of Polymer-Carbon Nanotube composites to enhance Multiple Reflections Mechanism of Electromagnetic Interference Shielding	Meikap A K (PI)	CSIR	19.17 Lakhs	2013
Development and Char-acterization of Polymer Multiferroic Nanocom-posites for Enhance Magneto-Dielectric Behavior at Radio Frequency	Meikap A K (PI) & Sahoo, S (Co-Invest)	DAE BRNS	24.8075 Lakhs	2014
Synthesis of In2O3 Nano-Wire assembly and UV detector	Mondal A. (PI)	DST SERB	53.96 Lakhs	2012
A unique technique for Synthesis of InN Nano-Wire assembly for the application of optical sensor	Mondal A.(PI)&Bhunia S (PC)	DAE BRNS	33.2390 Lakhs	2016

Annexure - 11.4(b) Projects completed during 2015-16

Department of Biotechnology

Title of the Project	Investigator(s)	Sponsoring authority
Investigation of cross talk between MAP Kinase and light signaling pathways in Arabidopsis thaliana	Chattopadhyay, S. and Sinha, A.K., NIPGR, New Delhi	DST–SERB
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
Assessment of Microbial Communities and their Biodegradation Potentials in Petroleum Contaminated environments in Assam	Kazy, S.K., NIT Durgapur Ghoshal A.K. IIT Guwahati, Sar P., IIT Kharagpur	DBT
Secondary metabolism and pathogenesis in rice blast fungus	Roy Barman, S.	DBT
Department of Chemical Engineering		
Title of the Project	Investigator(s)	Sponsoring authority
Grafting of the Fire Retardant Polymer on Rice (Oryza Sativa) straw for Enhancing the Durability of Hay-roofed Houses in the Poor people Dominated Backward Rural areas	Halder, G. N.	DST - Govt. of West Bengal
DST/FIST Project Level 1 phase-I	Dept. of Chemical Engg.	DST, 114.94
Study on Micro-porous Characteristics of activated carbon for PSA system employing Activated carbon-Nitrogen working pair	Halder, G. N.	DST, Govt. of India
Production of Lactic acid in Membrane-integrated Hybrid Reactor system – A Green Technology Approach	Pal, P.	DST, Govt. of India
Capturing Oscillations of Void Fractions in Boiling Natural Circulation Loop using Laser Doppler Anemometry and Impedance Probe	Paraya, S.	DST, Govt. of India
Development of suitable bacterial culture for biochemical oxidation of phenol, cyanide, ammonia and process optimization of the BOD PLANT	Pal, P.	Durgapur Steel Plant, SAIL
Treatment of Coke-oven Waste Water using Hybrid Technology	Dutta, S.	Indian Institute of Chemical Engineers
Department of Chemistry		
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

Title of the Project	Investigator(s)	Sponsoring authority
Department of Earth and Environmental Study		
Project Advisory Service for Solid Waste Management within ADPA region; Ref no. ADDA/DGP/PC-408/2014-15/2387	Dr S. Datta Dr K. Adhikari Dr S. Pal	ADDA
Department of Physics		
Carbon based nanostructures for diverse applications	AK Chakraborty	University of Liverpool, Liverpool, UK
A Study on Electron Dephasing Scattering Rate in Disordered Alloys and A15 Compounds at Low Temperature	A K Meikap (Principal Investigator), S. Basu (Co-Invest.), M K Mandal (Co-Invest.)	DST-SERB

Annexure–11.4(c) i. Research papers published in SCI / SCOPUS / Web of Science journals during 2015-16

Department of Biotechnology

1. Behera, M., Dhali, D., Chital, S., Mandal, T., Bhattacharya, P., Mandal D., 2016. Evaluation of performance of Planococcus sp. TRC1 an indigenous bacterial isolate monoculture as bioremediator for tannery effluent. Desalination and Water Treatment 57: 13213-13224.*
2. 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 14, 179-185.
3. 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.
4. Dasgupta, J., Kumar, A., Mandal, D. D., Mandal, T., Datta, S., 2016. Removal of phenol from aqueous solutions using adsorbents derived from low-cost agro-residues, Desalination and Water Treatment 57:14188-14212.*
5. Doadda, S.R., Sarkar, N., Aikat, K., Krishnaraj, N.R., Bhattacharjee, S., Bagchi, A., Mukhopadhyay, S.S. 2016. Insights from The Molecular Dynamics Simulation Of Cellobiohydrolase Cel6a Molecular Structural Model From Aspergillus Fumigatus NITDGPKA3. Comb Chem High Throughput Screen 19(4):325-33.
6. Hazra, M., Mandal, D. D., Mandal, T., Bhuniya, S., Ghosh M., 2015. Designing polymeric microparticulate drug delivery system for hydrophobic drug quercetin. Saudi Pharmaceutical Journal 23:429–436. *
7. Kumar, A., Priyadarshinee, R., Singha, S., Dasgupta, D., Mandal, T., 2016. Rice husk ash based silica supported iron catalyst coupled with Fenton-like process for the abatement of rice mill wastewater. Clean Technology and Environmental Policy, DOI: 10.1007/s10098-016-1165-4 (Accepted) *
8. Kumar, A., Sengupta, B., Dasgupta, D., Mandal, T., Datta, S., 2015. Recovery of value added products from Rice husk ash to explore an economic way for recycle and reuse of agricultural waste – A review. Reviews in Environmental Science and Bio-Technology 15:47-65.*
9. Kumar, A., Singha, S., Dasgupta, D., Datta, S., Mandal, T., 2015. Simultaneous recovery of silica and treatment of rice mill wastewater using rice husk ash: An economic approch. Ecological Engineering 84: 29-37. *
10. Kumar, A., Singha, S., Sengupta, B., Dasgupta, D., Datta, S., Mandal. T., 2016. Intensive insight into the enhanced utilization of rice husk ash: Abatement of rice mill wastewater and recovery of silica as a value added product. Ecological Engineering 91: 270-281. *

11. Mahata, B., Biswas, S., Rayman, P., Chahlavi, A., Ko, J., Bhattacharjee, A., Li, Yu-Teh , Li, Y., Das, T., Sa, G., Raychaudhuri, B., Vogelbaum, M. A., Tannenbaum, C., Finke, J. H., Biswas , K., 2015. GBM derived gangliosides induce T cell apoptosis through activation of the caspase cascade involving both the extrinsic and the intrinsic pathway. PLoS one, 10(7):e0134425.
12. Maurya, J.P., Sethi, V., Gangappa, S.N., Gupta, N., Chattopadhyay, S., 2015. Interaction of MYC2 and GBF1 results in functional antagonism in blue light mediated Arabidopsis seedling development. Plant Journal 83:439-450.
13. Mitra, R., Samanta, A.K., Chaudhuri, S., Dutta D., 2016. Effect of selected physico-chemical factors on bacterial b-cryptoxanthin degradation: stability and kinetic study. Journal of Food Process Engineering (Accepted), doi:10.1111/jfpe.12379.
14. Mondal, S., Aikat, K., Halder, G., 2015. Optimization of ranitidine hydrochloride removal from simulated pharmaceutical waste by activated charcoal from mung bean husk using response surface methodology and artificial neural network. Desalination and Water Treatment1-13. *
15. Mondal, S., Sinha, K., 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. *
16. Mondal, S., Aikat, K., Halder, G, 2016. Ranitidine hydrochloride sorption onto superheated steam activated biochar derived from mung bean husk in fixed bed column. Journal of Environmental Chemical Engineering 4:488-497. *
17. Neogi, S., Dey, A., Chaterjee, P. K., 2016. Microflora from leaf debris is suitable for treatment of starch industry wastewater. Engineering. in Life science, 00,1-7
18. Pal, S., Das Banerjee, T., Roy A., Sar, P., Kazy, S. K., 2015. Genome sequence of hydrocarbon degrading Chronobacter sp. Strain DJ34 isolated from crude oil containing sludge from the Duliajan oil fields, Assam, India, Genome Announcements, 3(6):e01321-15.
19. 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. 188:14-23
20. 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.
21. Priyadarshinee, R., Kumar, A., Mandal, T., Mandal, D.D., 2015. Improving the perspective of raw eucalyptus kraft pulp for industrial application through autochthonous bacterial mediated delignification. Industrial Crops and Products 74: 293–303. *
22. Ram, H., Jain, M., Singh, M., Chattopadhyay, S., 2015. Functional Relationship of GBF1 with HY5 and HYH in Genome-Wide Gene Expression in Arabidopsis. Plant Mol Biol Rep.DOI 10.1007/s11105-015-0910-x
23. 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.
24. Srivastava, A.K., Senapati, D., Srivastava, A., Chakraborty, M., Gangappa, S.N., Chattopadhyay, S., 2015. Short Hypocotyl in White Light1 Interacts with Elongated Hypocotyl5 (HY5) and Constitutive Photomorphogenic1 (COP1) and Promotes COP1-Mediated Degradation of HY5 during Arabidopsis Seedling Development. Plant Physiology 169: 2922–2934.
25. Verma, P., Yadav, A.N., Kazy, S.K., Kumar, S., Saxena, A.K., Suman, A., 2016. Molecular diversity and multifarious plant growth promoting attributes of Bacilli associated with wheat (Triticum aestivum L.) rhizosphere from diverse agro-ecological zones of India. Journal of Basic Microbiology, 54: 44-58.
26. Verma, P., Yadav, A.N., Kazy, S.K., Panjiar, N., Kumar, S., Saxena, A.K., Suman, A., 2015. Assessment of genetic diversity and plant growth promoting attributes of psychrotolerant bacteria allied with wheat (Triticum aestivum) from the northern hills zone of India. Annals of microbiology, 65: 1885-1899.

* Repeated in other departments

Department of Chemical Engineering

1. Khan, A. A., Saha, A. K., Halder, G. N., 2015. Carbon dioxide capture characteristics from flue gas using aqueous 2-amino-2-methyl-1-propanol (AMP) and monoethanolamine (MEA) solutions in packed bed absorption and regeneration columns. International Journal of Greenhouse Gas Control 32, 15-23.
2. Khan, A. A., Saha, A. K., Halder, G. N., 2016 Comparing CO2 removal characteristics of aqueous solutions of monoethanolamine, 2-amino-2-methyl-1-propanol, methyldiethanol amine and piperazine through absorption process, International Journal of Greenhouse Gas Control. 50, 179-189.
3. Khan, A. A., Saha, A. K., Halder, G. N., 2015 Experimental investigation of sorption characteristics of capturing carbon dioxide into piperazine activated aqueous 2-amino-2-methyl-1-propanol solution in a packed column, International Journal of Greenhouse Gas Control, 10.1016/j.ijggc.2015.11.020.
4. Behera, M., Dhali. Chityala, D. S., Mandal, T., Bhattacharya, P., Mandal, D.D., (2015) Evaluation of performance of Planococcus sp. TRC1 an indigenous bacterial isolate monoculture as bioremediator for tannery effluent. Desalination and Water Treatment 1-12. DOI:10.1080/19443994.2015.1057531
5. Chakrabortty, S., Pal, M., Roy, M., Pal, P., . Fluoride in Groundwater: Low cost Separation and Stabilization by Response Surface Optimization, International Journal of Environmental Science and Technology, DOI: 10.1007/s13762-015-0904-0
6. Chandra, S., Saha, R., Pal, P., 2015 Arsenic Uptake and Accumulation in Okra (Abelmoschus esculentus) as Affected by Different Arsenical Speciation Bull Environ Contam Toxicol , DOI 10.1007/s00128-015-1712-4
7. 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
8. Dasgupta, J., Sikder, J., Mandal, Tamal ., U. Adhikari (2015) Reactive red 120 retention through ultrafiltration enhanced by synthetic and natural polyelectrolytes. Journal of Hazardous Materials(Elsevier)299: 192-205.
9. Dasgupta, J., Kumar, A., Mandal, D, D., Mandal, T., S. Datta 2015. Removal of phenol from aqueous solutions using adsorbents derived from low-cost agro-residues, Desalination and Water Treatment, DOI: 10.1080/19443994.1061455
10. Dasgupta, J., Mondal, D., Chakraborty, S., Sikder, J., Curcio, S., & Arafat, H. A. 2015. Nanofiltration based water reclamation from tannery effluent following coagulation pretreatment. Ecotoxicology and environmental safety, 121, 22-30.
11. Dasgupta, J., Sikder, J., Mandal, T., &Adhikari, U., 2015. Reactive red 120 retention through ultrafiltration enhanced by synthetic and natural polyelectrolytes. Journal of Hazardous Materials, 299, 192-205.
12. Dhawane, S. H., Kumar, T., Halder, G., 2015 Central composite design approach towards optimization of flamboyant pods derived steam activated carbon for its use as heterogeneous catalyst in transesterification of Heveabrasiliensis oil. Energy Conversion and Management 100, 277–287.
13. Dhawane, S. H., Kumar, T., Halder, G., 2015 , Biodiesel synthesis from Heveabrasiliensis oil employing carbon supported heterogeneous catalyst: Optimization by Taguchi method. Renewable Energy 10.1016/j.renene. 12.027
14. Ghosh, A., Khanra, S., Mondal, M., Halder, G., Tiwari, O. N., 2016, Supreet Saini, Tridib Kumar Bhowmick, Kalyan Gayen, Progress toward isolation of strains and genetically engineered strains of microalgae for production of biofuel and other value added chemicals: A review. Energy Conversion and Management 113, 104-118.
15. Halder S., Dhawane, S. H. Kumar, T. & Halder, G., 2015, Acid-catalyzed esterification of castor (Ricinuscommunis) oil: optimization through a central composite design approach. Biofuels, DOI: 10.1080/17597269.1078559
16. Halder, G., Khan, A. A,. & Dhawane, S., 2015, Fluoride sorption onto a steam activated biochar derived from cocosnucifera shell, Clean: Soil, Air Water, 43(9999), 1-10.
17. Hazra, M., Mandal, D.D., Mandal, T., Bhuniya, S., Ghosh, M., 2015, Designing polymeric microparticulate drug delivery system for hydrophobic drug quercetin.Saudi Pharmaceutical Journal(Elsevier)23(4): 429-436.
18. Karmakar, A., Paruya, S., 2015, Visualization of boiling flow structure in a natural circulation boiling loop. Nuclear Engineering and Design, 285, 158-170.

19. Kumar, Anupam., Avinash V. Palodkar, and Halder, G., 2015, Experimental Study on Activated carbon-Nitrogen pair in a Prototype Pressure Swing Adsorption Refrigeration System, Heat and Mass Transfer, DOI 10.1007/s00231-015-1591-6.
20. Kumar, R., Pal, P., 2015, A Novel Forward Osmosis-Nano filtration Integrated System for Coke-oven Wastewater Reclamation" Chemical Engineering Research and Design, 100,542-553.
21. Kumar, A., Sengupta, B., Dasgupta, D., Mandal, T., Datta, S., 2015, Recovery of value added products from Rice husk ash to explore an economic way for recycle and reuse of agricultural waste – A review. Reviews in Environmental Science and Bio/Technology (Springer)Accepted.DOI 10.1007/s11157-015-9388-0
22. Kumar, A., Singha, S., Dasgupta, D., Datta, S., Mandal, T., 2015, Simultaneous recovery of silica and treatment of rice mill wastewater using rice husk ash: An economic approch.,EcologicalEngineeing (Elsevier)84: 29-37.
23. Kumar, A., Singha, S., Sengupta, B., Dasgupta, D., Datta, S., Mandal. T., 2016. Intensive insight into the enhanced utilization of rice husk ash: Abatement of rice mill wastewater and recovery of silica as a value added product. Ecological Engineering 91: 270-281
24. Kumar, Anupam,., Sikder, J., Pal, S., & Halder, G. 2015. Optimizing the cross-flow nanofiltration process for chromium (VI) removal from simulated wastewater through response surface methodology. Environmental Progress & Sustainable Energy, 34, 1332–1340.
25. Kumar, R., Pal, P., 2016 ,Assessing the feasibility of N and P recovery by struvite precipitation from nutrient-rich wastewater: a review Environ Sci. Pollut Res
26. Manna, A. K., Pal, P., 2016, Solar-driven flash vaporization membrane distillation for arsenic removal from groundwater: Experimental investigation and analysis of performance parameters, Chemical Engineering & Processing, 99, 1-57.
27. Mondal, S., Aikat, K., Halder, G., 2016, Ranitidine hydrochloride sorption onto superheated steam activated biochar derived from mung bean husk in fixed bed column, Journal of Environmental Chemical Engineering 4, 488-497.
28. Mondal, S., Aikat, K., Halder, G., 2016, Biosorptive Uptake of Ibuprofen by Chemically modified Parthenium hysterophorus derived Biochar: Equilibrium, Kinetics, Thermodynamics and Modeling, Ecological Engineering, DOI.10.1016/j.ecoleng. 2016. 03. 022.
29. Mondal, Sinha., K., 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 (1) 187-195.
30. Mukherjee, S,, Yadav, V., Mondal, M., Banerjee, S., Halder, G., 2016, Characterization of a fluoride-resistant bacterium Acinetobacter sp. RH5 towards assessment of its water defluoridation capability, Applied Water Science, DOI 10.1007/s13201-015-0370-3.
31. Mukherjee, A., Mandal, T., Ganguly A., Chatterjee, P., 2015, Lignin degradation in the production of bioethanol - a review. ChemBioEng Reviews (Wiley-VCH) Accepted. Manuscript ID: cben.201500016.
32. Narayanan, C. M., and Biswas, S., 2015, Computer Aided Design and Analysis of Three Phase Fluidized Bed Biofilm Reactors for Waste Water Treatment, Asian journal of biochemical and Pharmaceutical Research, Vol. 5, Issue 2, pp. 224 – 49.
33. Narayanan, C. M., and Biswas, S., 2016, Studies on Waste Water Treatment in Three Phase Semifluidized Bed Bioreactors – Computer Aided Analysis and Software Development, Journal of Modern Chemistry and Chemical Technology, Special Issue, Vol.7, No.1,.1-21, April, 2016.
34. Narayanan, C. M., Ajeej, A., and Joseph V. Thanikal, 2016, Studies on Production of Biogas by Co-digestion of Sewage Sludge, Wastepaper and Waste Grown Algae, Journal of Modern Chemistry and Chemical Technology, Special Issue, Vol.7, No.1, pp. 74-81, April,2016.
35. Narayanan, C. M., Ajeej, A., V., Joseph. T., and Kumar, R S., 2015, An Overview of Bioaugmentation of Methane Production by Anaerobic Co – Digestion of Municipal Sludge with Microalgae and Waste Paper, Renewable and Sustainable Energy Reviews, Vol. 50, pp. 270 – 76.
36. Narayanan, C. M., 2015, Studies on Computer Aided Design and Analysis of Three Phase Semifluidized Bed Bioreactors , Chemical Product and Process Modeling, Vol.10 (No.1), pp.55-70, DOI 10.1515/cppm.2014 – 0029.

37. Narayanan, C.M., 2015, and Aditi Pandey, Development of Software Packages for Computer Aided Design and Performance Analysis of Industrial Fractional Distillation Equipment, Trends in Chemical Engineering, Vol.2 (No.3), pp. 15 – 41.
38. Narayanan, C.M., and Das, S., 2016, Computer Aided Design and Performance Analysis of Inverse Fluidized Bed Biofilm Reactors With Special Reference to Bioplastic Synthesis, Advances in Chemical Engineering and Science, Vol.6, pp. 130-39, April, 2016.
39. Narayanan, C.M., 2016, Studies on performance Characteristics of Salt-gradient Solar Ponds using Aqueous Solutions of Copperas, International Journal of Green and Herbal Chemistry, Section – A, Vol.5, No.1, pp. 67 – 74, Dec.2015 – February, 2016.
40. Narayanan, C.M., De, T., and Sikder, J., 2015, Studies on Synthesis of Biodiesel by Transesterification of Neem Oil with Immobilized Lipase in Cylindrical and Diverging – Converging Fluidized Bed Bioreactors, International Journal of Chemical and Environmental Engineering, Vol. 6, No. 5, pp. 322 - 336, October, 2015.
41. Pal, P., Nayak, J., 2015. Development and analysis of a sustainable technology in manufacturing acetic acid and whey protein from waste cheese whey. Journal of Cleaner Production, 112 (1)59-70
42. Pal, P., Chakravarthi V., Kumar R., Chakrabortty S., 2016, Modeling and simulation of continuous production of L (+) glutamic acid in a membrane-integrated Bioreactor, Biochemical Engineering Journal, (2016), pp. 68-86
43. Pal, P., Nayak , J., 2016, Acetic acid production and purification: critical review towards process intensification, under Review, Separation and Purification Review , DOI: 10.1080/15422119.2016.118507
44. Pal, P., Kumar, R., Banerjee, S., 2016, Manufacture of Gluconic acid: a review towards process intensification for green production, Chemical Engineering & Processing: Process Intensification , pp. 160-171.
45. Paruya, S., Goswami, N., Pushpavanam, S., Pillai, S. D., Oinam, B., 2016. Periodically-forced density wave oscillations in boiling flow at low forcing frequencies: Nonlinear dynamics and control issues. Chemical Engineering Science, 140, 123-133.
46. Priyadarshinee, R., A, Kumar., Mandal, T., Mandal, D.D., 2015, Improving the perspective of raw eucalyptus kraft pulp for industrial application through autochthonous bacterial mediated delignification. Industrial Crops and Products 74: 293–303.
47. Mondal, S., Aikat, K., & Halder, G., 2015, Optimization of ranitidine hydrochloride removal from simulated pharmaceutical waste by activated charcoal from mung bean husk using response surface methodology and artificial neural network, Desalination and Water Treatment, DOI: 10.1080/19443994.2015.1088899
48. Sarkar, K. K., Mandal, T., 2015, Review on management of pharmaceutical wastewater. World Journal of Pharmaceutical Research 4(9):565-575.
49. Sen P., Roy, M., Pal, P., 2015, Exploring role of environmental proactivity in financial performance of manufacturing enterprises: a structural modelling approach' , Journal of Cleaner Production 1-15.
50. Sen, P., Pal, P.,, Roy, M., 2015, An explorative study to enable environmentally conscious manufacturing for an industrial gearbox manufacturing organization, Manufacturing Review 19(1) .
51. Mukherjee, S., Halder, G., Assessment of fluoride uptake performance of raw biomass and activated biochar of Colocasia esculenta stem: optimization through response surface methodology, Environmental Progress & Sustainable Energy, DOI 0.1002/ep.12346
52. Thakura, R., Chakrabortty, S., Pal, P., 2015, Treating Complex Industrial Wastewater in a New Membrane-integrated Closed Loop system for Recovery and Reuse, Clean Technologies and Environmental Policy: Volume 17, Issue 8 , Page 2299-2310.

Department of Chemistry

1. Banerjee, A., Dasgupta, S., Mukhopadhyay, B. P. Sekar, K., 2015. The putative role of some conserved water molecules in the structure and function of human transthyretin. Acta Cryst D71, 2248-2266.
2. Banerjee, S., Chatterjee, S., Anura, A., Chakrabarty, J., Pal, M., Ghosh, B., Paul, R.R., Sheet D., Chatterjee, J., 2016. Global spectral and local molecular connects for optical coherence tomography features to classify oral lesions towards unravelling quantitative imaging biomarkers. RSC Adv 6, 7511-7520.

3. Banerjee, S., Pal, M., Chakrabarty, J., Petibois, C., Paul, R.R.,Giri, A., Chatterjee, J., 2015. Fourier-transform-infrared-spectroscopy-based spectral-biomarker selection: towards optimum diagnostic differentiation of oral leukoplakia and cancer. Anal Bioanal Chem 407, 7935-7943.
4. Chandra, S., Saha, R.N., Pal, P., 2016. Arsenic Uptake and Accumulation in Okra (Abelmoschus esculentus) as Affected by Different Arsenical Speciation. Bulletin of Environmental Contamination and Toxicology 96, 395–400.*
5. Chaudhuri, P., Ghosh, A.K., Panja, S. S., 2015. Spectroscopic Investigation of Asphaltene Aggregation in Carbon Tetrachloride Medium Containing Microquantities of Water. Journal of Dispersion Science and Technology 37, 1470-1479.
6. Chaudhuri, P., Ghosh, A.K., Panja, S. S., 2016. 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 37, 205-212.
7. Dasguptaa, J., Sikder, J., Mandal, T., Adhikari, U., 2015. Reactive red 120 retention through ultrafiltration enhanced bysynthetic and natural polyelectrolytes. Journal of Hazardous Materials 299, 192-205.*
8. Dey, D., Shen, C.-Y., Tsai,H.-L. Rnjani,A. , Gayathri, L., Chandraleka, S., Dhanasekaran, D., Akbarsha, M. A. Maji, M., Kole, N., Biswas, B., 2015. Synthesis and bio-catalytic activity of isostructural cobalt(III)-phenanthroline complexes. Journal of Chemical Science 127, 649-661.
9. Dey, D., Yadav, H.R., De, A. , Chatterjee, S., Maji, M., Choudhury, A.R., Kole, N., Biswas, B., 2015. Synthesis, structural characterization and solution property of a 1D Pb(II)-bipyridine coordination polymer. Journal of Coordination Chemistry 68, 169-180.
10. Dutta, A., Panja, S. S., Nandi, M. M., 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 (Springer) 127, 921–929.
11. Dutta, A., Saha, S. K., Banerjee, P., Sukul, D., 2015. Correlating electronic structure with corrosion inhibition potentiality of some bis-benzimidazole derivatives for mild steel in hydrochloric acid: Combined experimental and theoretical studies. Corrosion Science 98, 541–550.
12. Dutta, S., Ghosh, A., Satpathi, A., Saha, R.N., 2015. Modified synthesis of nanoscale zero valent iron and its ultrasound assisted reactivity study on a reactive dye and textile industry effluents. Desalination and water treatment, DOI 10.1080/19443994.2015.1096833.
13. Dutta, S., Saha, R.N., Kalita, H., Bezbaruah, A.N., 2016. Rapid reductive degradation of azo and anthraquinone dyes by nanoscale zero-valent iron. Environmental Technology & Innovation (Elsevier) 5, 176-187.
14. Maji, R.C., Bhandari, A., Singh, R., Roy, S., Chatterjee, S.K., Bowles, F.L., Ghiassi, K. B., Maji, M., Olmstead, M.M., Patra, A.K., 2015. Copper Coordinated Ligand Thioether-S and NO2- Oxidation: Relevance to CuM Site of Hydroxylase. Dalton Trans 44, 17587-17599.
15. 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.*
16. Mitra, I., Ghosh, G.K., Mukherjee, S., Reddy B., V.P., Linert, W., Kubel, F., Rocquefelte, X., Moi, S.C., 2015. PdII–PdII bonding interaction in dinuclear PdII complex with non-macrocyclic (O&N) chelates: Characterization, kinetics and DFT study. Polyhedron 89, 101–109.
17. Mukherjee, S., Reddy B., V.P., Mitra, I., Saha, R.N., Bose K, J. C., Subba Reddy, D., Linert, W., Moi, S.C., 2015. In vitro model reaction of sulfur containing bio-relevant ligands with Pt(II) complex: Their kinetics, mechanism, bioactivity and computational studies. RSC Adv 5, 76987-76999.
18. Pal, S., Chowdhury, B., Patra, M., Maji, M., Biswas, B., 2015. Ligand centered radical pathways in catechol oxidase activity with a trinuclear zinc-based model. Synthethise, structural characterization and luminescence properties. Spetrochim Acta Part A Molecular and Biomolecular Spectroscopy 144, 148-154.
19. Pandey, S., Chakrabarty, J., Maiti, T.K., 2015. The FAME profiles of Cadmium resistant Ochrobactrum sp. and Lead and Arsenate resistant Bacillus spp. National Academy Science Letters 38, 507-511.
20. Reddy B., V.P., Mukherjee, S., Mitra, I., Misra, K., Sengupta, P.S., Linert, W., Bose K, J. C., Ghosh, G.K., Moi, S.C., 2016. An experimental and theoretical approach on the kinetics and mechanism for the formation of a four membered (S, S) chelated Pt(II) complex. RSC Adv 6, 18288-18299.

21. Roy, C., Panigrahi, L., Chakrabarty, J., 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, Scientia Pharmaceutica 83, 321-338.
22. Saha, S. K., Dutta, A., Ghosh, P., Sukul, D., Banerjee, P., 2015. Adsorption and corrosion inhibition effect of Schiff base molecules on the mild steel surface in 1M HCl medium: a combined experimental and theoretical approach. Phys Chem Chem Phys (Royal Soc. of Chemistry) 17, 5679—5690.
23. Swati, A., Guha Thakurta, S., Mondal, R., Dutta, S., Chakrabarty, J., 2016. Extraction of lipid from cyanobacteria by different disruption methods: A comparative study. Journal of Indian Chemical Society 93, 55-61.
** Repeated in other departments

Department of Civil Engineering

1. Nanda, R.P. and Karim, R., 2016, Low cost sliding isolators for developing countries, Asian Journal of Civil Engineering (Building and Housing), 17(4), 417-425. SCOPUS indexed.
2. Nanda, R.P., Paul, N.K., Ningthoujam, M.C., and Rout, S., 2015, Seismic risk assessment of building stocks in Indian context, Natural Hazards, 78(3), 2035-51. SCI indexed.
3. Nanda, R.P., Shrikhande, M. and Agarwal, P., 2015, Low cost base isolation system for seismic protection of rural buildings, Practice Periodical on Structural Design and Construction (ASCE), DOI: 10.1061/(ASCE)SC.1943-5576.0000254. SCOPUS indexed.
4. Paul, N.K., Ningthoujam, M.C. and Nanda, R.P., 2015, Seismic risk assessment based on attenuation relation, Asian Journal of Civil Engineering (Building and Housing), 16(8), 1175-84. SCOPUS indexed.
5. Rout, S., Nanda, R.P. and Panda, K.C., 2015, Seismic damage evaluation of existing buildings based on shear wave velocity: a case study, Asian Journal of Civil Engineering (Building and Housing), 16(6), 909-918. SCOPUS indexed.
6. Rout, S., Nanda, R.P., 2015, Deterministic Seismic Hazard Assessment at Bed Rock Level: Case Study for the City of Bhubaneswar, India, International Journal of Engineering and Technology, 7(2), 599-610. SCOPUS indexed.
7. 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, 12(8), 1565-1582.

Department of Computer Applications

1. Banerjee, P., Sarkar, A., & Debnath, N. C., (2015). Analytical Model for Component Based Software: Towards Effective Design. International Journal of Software Engineering and Its Applications, Science & Engineering Research Support Society (SERSC) 9 (12), 13-40.
2. Pal, S., Mandal, A, K., Sarkar, A., (2015) Application Multi-Tenancy for Software as a Service ACM SIGSOFT Software Engineering Notes, Volume 40, Issue 2, 1-8.
3. Roy R., Changder S., 2016.Quality Evaluation of Image Steganography Techniques: A Heuristics based Approach . International Journal of Security and its Applications, 179-186.
4. Roy R., Samima S., Changder S., 2015. A Map based Image Steganography scheme for RGB Images. International Journal of Information and Computer Security, Inderscience Publishers, 196-215.
5. Sharma, A., Kar, P., Biswas P., Bhattacharya, U., 2015. Adaptive Call Admission Control Scheme with Optimal Resource Allocation for Multi-Class Cellular Networks. International Journal of Autonomous and Adaptive Communications Systems 8, 353-373.
* Repeated in other departments

Department of Computer Science and Engineering

1. Kumar, R.K., Garain, J., Sanyal, G., Kisku, D.R., 2015. Estimating normalized attention of viewers on account of relative visual saliency of faces. International Journal of Software Engineering and Its Applications. 9(7), 85-92.
2. Garain, J., Kumar, R.K., Sanyal, G., Kisku, D.R., 2015. Cohort selection of specific user using Max-Min-Centroid-Cluster (MMCC) method to enhance the performance of a biometric system. International Journal of Security and Its Applications. 9(6), 263 - 270.
3. Kundu, P., Kar, M.B., Kar, S., Pal, T. and Maiti, M., 2015. A solid transportation model with product blending and parameters as rough variables. Soft Computing, Springer Berlin Heidelberg. 1-10. *
4. Saha, M., Dalui, M., Sikdar, B.K., 2016. A cellular automata based highly accurate memory test hardware realizing March C. Microelectronics Journal. 52, 91–103. *

5. Sen, B., Dutta, M., Mukherjee, R., Nath, R., Sinha, A. P., and Sikdar, B., 2015. Towards the design of hybrid qca tiles targeting high fault tolerance. Journal of Computational Electronics. 1–17.
6. Sen, B., Nag, A., Dey, A., and Sikdar, B., 2015. Towards the hierarchical design of multilayer QCA logic circuit. Journal of Computational Science, Elsevier.
7. Sen, B., Sahu, Y., Mukherjee, R., Nath, R., and Sikdar, B., 2016. On the reliability of majority logic in qunatum-dot cellular automata. Microelectronics Journal, Elsevier. 47, 7-18.
8. Sen, B., Goswami, M., Mazumdar, S., and Sikdar, B., 2015. Towards modular design of reliable QCA logic circuit using multiplexer. Computers and Electrical Engineering Journal, Elsevier. 45, 42-54.
9. Guha Thakurta, P.K., Sett, S., 2015. Joint routing in mobile networks: A weighted optimization based approach. International Journal of Computers and Applications, Taylor and Francis, 37 (2), 73-81.
10. Mukherjee, S., Roy, S. 2015. SAT based solutions for detailed routing of island style FPGA architectures. Microelectronics Journal (MEJ), Elsevier. 46, 8, 706-715.
11. Mukherjee, S., Roy, S. 2016. Nearly-2-SAT solutions for segmented channel routing. IEEE Transactions on Computer Aided design of Integrated Circuits (TCAD). 35, 1, 128-140.
12. Majumder, P., Pal, A., De, T., 2016. Extending light-trail into elastic optical networks for dynamic traffic grooming. International Journal of Optical Switching and Network, Elsevier. 20(1), 1-15.
13. Pradhan, A.K., Ghosh, S., De, T., 2016. Multicast protection and grooming scheme in survivable WDM optical networks. International Journal of Optical Switching and Network, Elsevier. 19(2), 42-57.
14. Barat, S., Pal, A., De, T., 2015. A load balanced approach of multicast routing and wavelength assignment in WDM networks. International Journal of Communication Networks and Distributed Systems (IJCNDS), Inderscience. 15(1), 1-21.
15. Pradhan, A.K., Das, K., Ghosh, A., De, T., 2016. Resource efficient multicast traffic grooming in WDM mesh networks. Journal of High Speed Networks, IOS Press. 22(2), 95-111.
* Repeated in other departments

Department of Electrical Engineering

1. Saha, S.K., Kar, R., Manda,l D., Ghoshal, S.P., 2015, Optimal IIR Filter Design usingGravitational Search Algorithm with Wavelet Mutation, Journal of King Saud University - Computer and Information Sciences, Elsevier ,27, 25–39,.
2. Bera, R., Mandal, D., Kar, R., Ghoshal, S.P., 2015, Application of Particle Swarm Optimization technique in thinned Hexagonal and Concentric Hexagonal antenna array for side lobe level reduction,Advances in Intelligent Systems and Computing (AISC) XI, Springer,343, 333-349.
3. Das, S., Nazerin, S.M., Mandal, D., Kar R., Ghoshal, S.P., 2015, Performance Comparison of Two Recently Proposed Adaptive Differential Evolution Algorithms on Space Only Low Sidelobe Synthesis Problem of Concentric Regular Hexagonal Antenna Arrays, Procedia Computer Science,Elsevier, 45, 635–643.
4. Das, S., Mandal, D., Kar, R., Ghoshal, S.P., 2015,Element Spacing Optimization of Low sidelobe Concentric Hexagonal Antenna Arrays using MOEA/D, Advances in Intelligent Systems and Computing (AISC) XI, Springer,343, 189-196.
5. Bera, R., Lanjewar, R., Mandal, D., Kar, R., Ghoshal, S.P., 2015, Comparative Study of Circular and Hexagonal Antenna Array Synthesis using Improved Particle Swarm Optimization, Procedia Computer Science, Elsevier, 45, 651–660.
6. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015,Circular and Concentric Circular Antenna Array Synthesis Using CSO, IETE Technical Review, Taylor & Francis, 32(3),204-217,.
7. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015,CRPSOWM for Linear Antenna Arrays with improved SLL and Directivity, IETE Journal of Research, Taylor & Francis61(2), 109-120,.
8. Das, S., Mandal, D., Kar, R., Ghoshal, S.P.,March, 2015,A New Hybridized Backtracking Search Optimization Algorithm with Differential Evolution for Sidelobe Suppression of Uniformly Excited Concentric Circular Antenna Arrays, International Journal of RF and Microwave Computer-Aided Engineering,Wiley, 25(3),262–268,.
9. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2015,Particle Swarm Optimization with Aging Leader and Challengers for Optimal Design of Analog Active Filters, Circuits, Systems & Signal Processing,Springer, 34(3), 707-737.

10. Dey, 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, 6(4), 621-636,.
11. Dey, 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 Modelling: Electronic Networks, Devices and Fields, Wiley, 28(5), 593–609.
12. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2015,Optimal High Speed CMOS Inverter Design Using Craziness based Particle Swarm Optimization Algorithm, Open Engineering, 5(1),256–273,
13. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2015,Optimal CMOS Inverter Design using Differential Evolution Algorithm,Journal of Electrical Systems and Information Technology, Elsevier, 2(2), 219–241,
14. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S.P., 2015,A design of low swing and multi threshold voltage based low power 12T SRAM cell, Computers and Electrical Engineering, Elsevier, 45, 108–121,.
15. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015,Directivity Maximization and Optimal Far-Field Pattern of Time Modulated Linear Antenna Arrays Using Evolutionary Algorithms, AEU International Journal of Electronics and Communications, Elsevier, 69(12), 1800–1809.
16. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015,Directivity and SLL Optimization of Time Modulated Concentric Circular Antenna Array Synthesis - An Hybrid Evolutionary Approach, International Journal of Machine Learning and Cybernetics, Springer, 6(5), 819-835,.
17. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015,Opposition Based Gravitational Search Algorithm for Synthesis Circular and Concentric Circular Antenna Arrays, ScientiaIranica D,22(6),2457-2471.
18. Pal, P.S., Kar, R., Mandal, D., Ghoshal, S.P, 2015,An Efficient Identification Approach for Stable and Unstable Nonlinear Systems using Colliding Bodies Optimization Algorithm, ISA Transactions, Elsevier, 59, 85–104,.
19. Banerjee, S., Ghosh, A., 2015, Control of Switched-Mode Boost Converter by using Classical and Optimized Type Controllers, Journal of Control Engineering and Applied Informatics, 17(4), 114-125.
20. Banerjee, S., Dutta, P., Ghosh. A., Sarkar, M.K.,2016, Design and Implementation of Type-II and Type-III Controller for DC-DC Switched-Mode Boost Converter by using K-Factor Approach and Optimization Techniques, IET Power Electronics,9(5), 938-950.
21. Banerjee, S., Guha, D., Roy, P., 2016, Load frequency control of interconnected power system using grey wolf optimization", Swarm and Evolutionary Computation, Elsevier, 27, 97-115.
22. Banerjee, S., Guha, D., Roy, P., 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 (IJEOE), IGI-Global, 5(3).
23. Banerjee, S., Guha, D., Roy, P., 2016, Application of Backtracking search algorithm in load frequency control of multi-area interconnected power system, Ain Shams Engineering Journal, Elsevier. (On line).
24. Banerjee, S., Guha, D., Roy, P., 2016, Grey Wolf Optimization to Solve Load Frequency Control of an Interconnected Power System: GWO used to solve LFC problem, International Journal of Energy Optimization and Engineering (IJEOE), IGI-Global, 5(4).
25. Banerjee, S., Ghosh, K., Khondekar, M.H., Ray, R., Sarkar, T., 2015, Chaos and Periodicity in Solar Wind Speed: Cycle 23, Astrophysand Space Science , Springer, 357(2).
26. Acharjee P, 2016,Optimal power flow with UPFC using security constrained self-adaptive differential evolutionary algorithm for restructured power system, International Journal of Electrical Power & Energy Systems,76, 69-81.
27. Pradhan, A., Koley, C., Chatterjee, B.,Chakravorti, S., 2015, Non-linear modeling of oil-paper insulation for condition assessment using non-sinusoidal excitation, IEEE Transactions on Dielectrics and Electrical Insulation, 22(4), 2165 – 2175.
28. Kumar, N., Saha T.K., Dey, J., Sliding Mode Control (SMC) of PWM DualInverter Based Grid Connected PV System: Modelling and Performance analysis,"IEEE Journal of Emerging and Selected Topics in Power Electronics, 4(2), 2016, 435-444,

29. Kumar, N., Saha T.K., Dey, J., 2016, Modeling, control and analysis of cascaded inverter basedgrid-connected photovoltaic system, Electrical Power and Energy Systems-Elsevier, 78, 165–173, .
30. Das, A.K., Halder, S., 2015, Pharmacodynamic Model of Ligand Gated Ion Channel Concomitant with Cell Signalling Pathways, IJEMR, 5, 215-221.
* Repeated in other departments

Department of Electronics and Communication Engineering

1. Ray, R., Khondekar, M. Hossain, Ghosh, K., Bhattacharjee, A. K., 2015. Memory persistency and nonlinearity in daily mean dew point across India, Theor Appl Climatol,Springer.
2. Bandyopadhyay.P. K., Chakraborty, S., Biswas, A., Acharyya. A., Bhattacharjee, A.K., Feb 2016. Large-signal characterization of millimeter-wave IMPATTs:effect of reduced impact ionization rate of charge carriers due to carrier-carrier interactions. Journal of Computational Electronics,Springer. 15(2), 646-656.
3. Banerjee.P, Acharyya.A, Biswas.A, Bhattacharjee, A. K., November 2015. Effect of magnetic field on the RF performance of millimeter-wave IMPATT source. Journal of Computational Electronics, Springer. 15(1), 210-221.
4. Bera, R., Lanjewar, R., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Comparative Study of Circular and Hexagonal Antenna Array Synthesis using Improved Particle Swarm Optimization.Procedia Computer Science 45, 651–660.*
5. Bera, R., Lanjewar, R., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Comparative Study of Circular and Hexagonal Antenna Array Synthesis using Improved Particle Swarm Optimization", Procedia Computer Science, Vol. 45, 651–660.*
6. Bera, R., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Application of Particle Swarm Optimization technique in thinned Hexagonal and Concentric Hexagonal antenna array for side lobe level reduction Advances in Intelligent Systems and Computing (AISC) XI, Springer 343, 333-349.*
7. 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 3, 019-028.*
8. Bera, R., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Application of Particle Swarm Optimization technique in thinned Hexagonal and Concentric Hexagonal antenna array for side lobe level reduction" Advances in Intelligent Systems and Computing (AISC) XI 343,333-349.*
9. 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 3, 019-028.*
10. Bhowmick, A., Chandra, A., Roy, S. D., Kundu, S., 2015. Double threshold-based cooperative spectrum sensing for a cognitive radio network with improved energy detectors. IET Communications 9(18), 2216-2226.
11. Bhowmick, A., Chandra A., Dhar Roy, S., Kundu, S., Aug. 2015. Double threshold based cooperative spectrum sensing for a cognitive radio network with improved energy detectors. IET Communications (Impact Factor 0.742), In Press; doi: 0.1049/iet-com.2014.1098, pp 1-11.
12. Bhowmick, A., Dhar Roy, S., Kundu, S., 2015. Sensing Throughput Trade-off for an Energy Efficient Cognitive Radio Network under Faded Sensing and Reporting Channel. IJCS Wiley. In Press; DOI: 10.1002/dac.3087.
13. Bhowmick, A., Dhar Roy, S., Kundu, S., 2015. Throughput of a Cognitive Radio Network with Energy-Harvesting based on Primary User Signal. IEEE Wireless Communications Letters In Press; DOI: 10.1109/LWC. 2015.2508806, pp 1-4.
14. Bhowmick, A., Nallagonda, S., Dhar Roy, S., Kundu, S., 2015. Cooperative Spectrum Sensing with Double Threshold and Censoring in Rayleigh Faded Cognitive Radio Network. Wireless Personal Communication (WPC), Springer. (Impact Factor 0.653). vol. 84, issue 1, pp. 251-271.
15. Biswas, B., Ghatak, R., Karmakar, A., and Poddar, D. R., 2014. Dual Band Notched UWB Monopole Antenna Using Embedded Omega Slot and Fractal Shaped Ground Plane. Progress In Electromagnetics Research C, 53, 177-186.
16. Chakravorty P., Mandal D., 2015. Hysteretic Boundary Conditions for PSO of Antenna Array Pattern Synthesis. Procedia Computer Science, Elsevier 45, 628–634.
17. Chakravorty P., Mandal D., 2015. PSO in Concentric Circular Arrays for Side Lobe Reduction with Symmetric Relocation Boundary Condition. Advances in Intelligent Systems and Computing (AISC) XI, Springer 343, 503-509,.
18. Chakravorty P., Mandal D., 2016. Microstrip bandpass filter design using split-path method and optimized curvature corrections.Int. J. Numer 29: 520–529. doi: 10.1002/jnm.2109, 2016.

19. Chakravorty P., Mandal D., 2016.Grating Lobe Suppression With Discrete Dipole Element Antenna Arrays.IEEE Antennas and Wireless Propagation Letter 5(1), 1234 - 1237.
20. Chandra, A., Blumenstein, J., Mikulasek, T., Vychodil, J., Marsalek, R., Prokes, A., Zemen, T., Mecklenbrauker, C., 2015. Serial subtractive deconvolution algorithms for time-domain ultra wide band in-vehicle channel sounding. IET Intelligent Transport Systems 9(9), 870-880.
21. Chandra, K., Mondal, S., Dhar S., Kundu S., 20 April 2016. Outage Probability Analysis of a Secondary User in an Underlay Dual Hop Cognitive Amplify-and-Forward Relay Network", Perspectives in Science, Elsevier, Available online, In Press, DOI: 10.1016/j.pisc.2016.04.012.
22. Das, S., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Element Spacing Optimization of Low sidelobe Concentric Hexagonal Antenna Arrays using MOEA/D.Advances in Intelligent Systems and Computing (AISC) XI, Springer 343, 189-196.*
23. Das, S., Mandal, D., Kar, R., Ghoshal, S. P., March 2015. A New Hybridized Backtracking Search Optimization Algorithm with Differential Evolution for Sidelobe Suppression of Uniformly Excited Concentric Circular Antenna Arrays. International Journal of RF and Microwave Computer-Aided Engineering, 25(3), 262–268.*
24. Das, S., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Element Spacing Optimization of Low sidelobe Concentric Hexagonal Antenna Arrays using MOEA/D.Advances in Intelligent Systems and Computing (AISC) XI, Springer 343, 189-196.*
25. Das, S., Mandal, D., Kar, R., Ghoshal, S. P., March 2015. A New Hybridized Backtracking Search Optimization Algorithm with Differential Evolution for Sidelobe Suppression of Uniformly Excited Concentric Circular Antenna Arrays. International Journal of RF and Microwave Computer-Aided Engineering, 25(3), 262–268.*
26. Das, S., Nazerin, S. M., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Performance Comparison of Two Recently Proposed Adaptive Differential Evolution Algorithms on Space Only Low Sidelobe Synthesis Problem of Concentric Regular Hexagonal Antenna Arrays.Procedia Computer Science, Elsevier, 45, 635–643.*
27. Das, S., Nazerin, S. M., Mandal, D., Kar, R., Ghoshal, S. P., 2015. Performance Comparison of Two Recently Proposed Adaptive Differential Evolution Algorithms on Space Only Low Sidelobe Synthesis Problem of Concentric Regular Hexagonal Antenna Arrays.Procedia Computer Science 45, 635–643, Elsevier.*
28. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P., 2015. Particle Swarm Optimization with Aging Leader and Challengers for Optimal Design of Analog Active Filters. Circuits, Systems & Signal Processing, Springer, Volume 34, Issue 3, pp. 707-737.*
29. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P., August 2015. Optimal Selection of Components Value for Analog Active Filter Design Using Simplex Particle Swarm Optimization. International Journal of Machine Learning and Cybernetics, Springer. Vol 6, Issue 4, pp 621-636.*
30. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P., Oct, 2015. Optimal Analog Active Filter Design Using Craziness based Particle Swarm Optimization Algorithm, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley. Vol 28, Issue 5, pp 593–609.*
31. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P., 2015. Particle Swarm Optimization with Aging Leader and Challengers for Optimal Design of Analog Active Filters. Circuits, Systems & Signal Processing, Springer. Vol 34, Issue 3, pp 707-737.*
32. De, B. P., Kar, R., Mandal, D., Ghoshal, S. P., Aug. 2015. Optimal Selection of Components Value for Analog Active Filter Design Using Simplex Particle Swarm Optimization. International Journal of Machine Learning and Cybernetics, Springer. Vol 6, Issue 4, pp 621-636.*
33. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., September 2015. Optimal CMOS Inverter Design using Differential Evolution Algorithm", Journal of Electrical Systems and Information Technology, Elsevier. 2(2). 219–241.*
34. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., 2015. Optimal Design of High Speed Symmetric Switching CMOS Inverter using Hybrid Harmony Search with Differential Evolution. Soft Computing, Springer.*
35. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., April 2016. An Efficient Design of CMOS Comparator and Folded Cascode Op-Amp Circuits using Particle Swarm Optimization with an Aging Leader and Challengers Algorithm. International Journal of Machine Learning and Cybernetics, Springer. 7(2), 325-344. *
36. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., Jul 2015. Optimal High Speed CMOS Inverter Design Using Craziness based Particle Swarm Optimization Algorithm. Open Engineering. 5(1), 256–273.

37. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., September 2015. Optimal CMOS Inverter Design using Differential Evolution Algorithm. Journal of Electrical Systems and Information Technology, Elsevier. 2(2), 219–241.*
38. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., 2015. Soft Computing based Approach for Optimal Design of On-Chip Comparator and Folded-cascode Op-Amp Using Colliding Bodies Optimization. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley.*
39. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S. P., 2015. PSO with Aging Leader and Challengers for Optimal Design of High Speed Symmetric Switching CMOS Inverter. International Journal of Machine Learning and Cybernetics, Springer.*
40. Dhar, S., Patra, K., Ghatak, R., Gupta, B., and Poddar, D. R., 2015. A Dielectric Resonator-Loaded Minkowski Fractal-Shaped Slot Loop Heptaband Antenna. IEEE Transactions on Antennas and Propagation, 63(4), 1521-1529.
41. Dhar S , Patra K , Ghatak R, Gupta B , R Poddar D, (2015). A Dielectric Resonator-Loaded Minkowski Fractal-Shaped Slot Loop Heptaband Antenna. IEEE Transaction on Antennas and Propagation, 63(4), 1521-1529.
42. Ghatak, R., Karmakar, A., Poddar Dipak, R., 2015. Evolutionary Optimization of Haferman Carpet Fractal Patterned Antenna Array. International Journal of RF and Microwave Computer-Aided Engineering, 25(8), 719-729.
43. Ghatak, R., Pal, M., 2015. Revisiting Relations for Modeling the Input Resistance of a Rectangular Microstrip Antenna. IEEE Antennas and Propagation Magazine, 57(4), 116-119.
44. Ghosh, J., Dhar Roy, S. 2016. Mitigating ICI At Cell Edges in Cognitive-Femtocell Networks Through Fractional Frequency Reuse. IJCNDS (An Inderscience journal), 16(2), 162-175.
45. Ghosh, J., Dhar Roy, S. August, 2015. Qualitative analysis for coverage probability and energy efficiency in cognitive-femtocell networks under macrocell infrastructure. ELECTRONICS LETTERS, 51(17), 1378–1380.
46. Jana, D., Roy, S., Panja, R., Dutta, M., Rahaman, S. Z., Mahapatra, R., Maikap, S., 2015. Conductive-bridging random access memory: challenges and opportunity for 3D architecture. Nanoscale Research Letters. 10:188, 1-23.
47. Karmakar, A., Ghatak, R., Mishra, R. K., Poddar, D. R., 2015. Sierpinski carpet fractal-based planar array optimization based on differential evolution algorithm. Journal of Electromagnetic Waves and Applications, 29(2), 247-260.
48. Kundu, A., Bhattacharjee, A. K., Sept. 2015. Design of Compact Triple Frequency Microstrip Antenna For WLAN/WiMAX Applivations.Microwave and Optical Technology Letters 57(9), 2125-2129,.
49. 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 29(12), 1535-1546.
50. Maji, K.B., Kar, R., Mandal, D., Ghoshal,S.P., April 2016.An Evolutionary Approach Based Design Automation of Low Power CMOS Two-Stage Comparator and Folded Cascode OTA. AEÜ International Journal of Electronics and Communications, Elsevier 70(4), 398–408,.
51. Maji, K.B., Kar, R., Mandal, D., Ghoshal,S.P., April 2016. An Evolutionary Approach Based Design Automation of Low Power CMOS Two-Stage Comparator and Folded Cascode OTA. AEÜ International Journal of Electronics and Communications, Elsevier 70(4), 398–408.
52. Majumder, A., Ghosh, S., Kundu, S., Chowdhury, S., 2015. Optimal Statistical Structure Validation of Brain Tumors using Refractive Index. Elsevier Procedia Computer Science 57, 168-177.
53. Majumder, A., Sarkar, M., 2015. Intelligent Topological Differential Gene Networks. Advances in Intelligent Systems and Computing 404, 79-93.
54. Majumder, A., Sarkar, M., 2015. Quantitative trait Specific Differential Expression (qtDE). Elsevier Procedia Computer Science 46, 706-718.
55. Majumder, A., Sarkar, M., 2015. Exploring Differential nature of Human and Chimpanzee Organs through Linear Correlative and MI Measures. Journal of Medical and Bioengineering 4(1), 12-18.
56. Mandal, B., Biswas, A., Samanta, S., Bhattacharjee, A.K., 2015.Intrinsic Localized Modes in Metamaterials. Advances in Optical Science and Engineering, Springer Proceedings in Physics 166, 549-556.
57. Mandal, D., Chatterjee, A., Mondal, T., Bhattacharjee, A.K., 2015. Shaped beam synthesis of Concentric ring array antenna using Differential Evolution Algorithm. International Journal of Electronics and communications(AEU) 69,1025-1031.

58. Mondal, T., Roy, T., Ghatak, R., and Sekhar, R., Chaudhuri, B., 2005. Novel Adaptive Blind spot Detector Using square Modified Cantor Fractal microstrip Antenna Array. Microwave and Optical Technology Letters, 57(5), 1067-1072.
59. Mondal, T., Samanta, S., Ghatak, R., Sekhar, R., Chaudhuri, B., 2015. A Novel Tri-Band Hexagonal Microstrip Patch Antenna Using Modified Sierpinski Fractal for Vehicular Communication. Progress In Electromagnetics Research C 57, 25–34.
60. Nallagonda, S., Chandra, A., Roy, S. D., Kundu, S., Kukolev, P., Prokes, A., 2016. Detection performance of cooperative spectrum sensing with hard decision fusion in fading channels. International Journal of Electronics 103(2), 297-321.
61. Pal, P. S., Kar, R., Mandal, D., Ghoshal, S. P., November 2015. An Efficient Identification Approach for Stable and Unstable Nonlinear Systems using Colliding Bodies Optimization Algorithm, ISA Transactions, Elsevier 59, 85–104.*
62. Pal, P. S., Kar, R., Mandal, D., Ghoshal, S. P., November 2015. An Efficient Identification Approach for Stable and Unstable Nonlinear Systems using Colliding Bodies Optimization Algorithm, ISA Transactions, Elsevier 59, 85–104.*
63. Pal Manimala, Ghatak Rowdra, 2015. A Distinctive Resonance: Multiband Bandpass Filter Design Techniques Using Multimode Resonators. IEEE Microwave Magazine, 16(11), 36-55.
64. Pal Manimala, Pankaj Sarkar, Ghatak Rowdra, 2016. Perturbed Sierpinski Carpet Resonator and its Usage in Compact Dual and Triple Band Bandpass Filters. Published online RF and Microwave computer Aided Engineering/ (DOI: 10.1002/mmce.20969)
65. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015. Circular and Concentric Circular Antenna Array Synthesis Using CSO. IETE Technical Review, Taylor & Francis. 32 (3), 204-217 2015.
66. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015. CRPSOWM for Linear Antenna Arrays with improved SLL and Directivity. IETE Journal of Research, Taylor & Francis. 61 (2), 109-120.
67. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., December 2015. Directivity Maximization and Optimal Far-Field Pattern of Time Modulated Linear Antenna Arrays Using Evolutionary Algorithms. AEU International Journal of Electronics and Communications, Elsevier. 69 (12), 1800–1809.
68. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., October 2015. Directivity and SLL Optimization of Time Modulated Concentric Circular Antenna Array Synthesis - An Hybrid Evolutionary Approach. International Journal of Machine Learning and Cybernetics, Springer. 6 (5), 819-835.
69. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015. Opposition Based Gravitational Search Algorithm for Synthesis Circular and Concentric Circular Antenna Arrays. Scientia Iranica D, 22 (6), 2457-2471.
70. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., February 2016. Hybrid GSADE algorithm for Optimization of Far Field Radiation Pattern of Circular Arrays", Annals of Telecommunications, Springer. 71(1), 61-71.
71. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016. Improvement in Various Radiation Characteristics of Time Modulated Linear Antenna Arrays Using Evolutionary Algorithms. Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis. 28(1-2), 151-180.
72. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015. Circular and Concentric Circular Antenna Array Synthesis Using CSO. IETE Technical Review, Volume, Taylor & Francis. 32(3), 204-217.
73. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2015. CRPSOWM for Linear Antenna Arrays with improved SLL and Directivity. IETE Journal of Research, Taylor & Francis. 61 (2), 109-120.
74. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., February 2016. Hybrid GSADE algorithm for Optimization of Far Field Radiation Pattern of Circular Arrays. Annals of Telecommunications, Springer 71(1), 61-71.
75. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016. Improvement in Various Radiation Characteristics of Time Modulated Linear Antenna Arrays Using Evolutionary Algorithms.Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis, 28(1-2), 151-180.
76. Ray, R., Khondekar, M., Hossion, K., Ghosh .K., Bhattacharjee, A.K., 2016. Scaling and nonlinear behavior of daily mean temperature time series across India. Chaos Solitons and Fractals 84 ,ELSEVIER,9-14.
77. Ray, R., Khondekar, M., H. Ghosh. K., Bhattacharjee A.K., Feb 2015.Memory persistency and nonlinearity in daily mean dew point across India. Theor Appl Climatol,Springer.
78. Roy, B., Bhattacharya, A., Chowdhury, S.K., Bhattacharjee, A.K., November 2015.A Wideband Antenna with Defected Patch Structure Applicable for Wireless Communication. Indian Journal of Science and Technologyl 8(30), 1-5.

79. Roy, B., Chakraborty, U., Chowdhury, S. K., Bhattacharjee, A. K., April 2016. Design of U-Shaped Antenna Using Different Substrate With Enhanced Bandwidth for WLAN/WiMAX Application. Microwave and Optical Technology Letters 58(4),959-963..
80. 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 27, 25–39. *
81. 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 27, 25–39.*
82. Sinha, M., Mahapatra, R., Mondal, B., Maruyama, T., Ghosh, R., 2016. Ultrafast and Reversible Gas-Sensing Properties of ZnO Nanowire Arrays Grown by Hydrothermal Technique. J. Phys. Chem. C 120 (5), 3019–3025.
83. 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 7(4).*
84. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P., July 2015. A design of low swing and multi threshold voltage based low power 12T SRAM cell", Computers and Electrical Engineering, Elsevier 45, 108–121.
85. 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, Volume 7(4).*
86. Upadhyay, P., Kar, R., Mandal, D., Ghoshal, S. P., July 2015. A design of low swing and multi threshold voltage based low power 12T SRAM cell", Computers and Electrical Engineering, Elsevier 45, 108–121.*
* Repeated in other departments

Department of Earth and Environmental Studies

1. Adhikari, K., & Pal, S., 2016. Assessment of Pollution Potential of Soil and Groundwater in a Non-Engineered MSW Landfill Site. International Journal of Environmental Science and Development, 7(3), 207.
2. Biswas, G., Dutta, M., Dutta, S., & Adhikari, K., 2015. A comparative study of removal of fluoride from contaminated water using shale collected from different coal mines in India. Environmental Science and Pollution Research, 1-14.
3. Karmakar, S., Adhikari, M., Gangopadhyay, A., Brahmachari, K., 2015. Impct of Vermicomposting in Agricultural waste management vis-a-vis soil health care. J. Environ. Sci. & natural Resources, 8(1): 99-104,2015
4. Pal, S., Adhikari, K., Mukherjee, S., & Ghosh, S., 2015. Potential of Silty Clay Soil as an Attenuation Material for Containment of Phenolic Wastewater Outfall Site. International Journal of Environmental Science and Development, 6(12), 895.
* Repeated in other departments

Department of Information Technology

1. Choudhury, B., Dutta, A., Choudhury, S., 2016. Server selection schemes for service oriented computing in mobile pervasive environment. Elsevier Journal of Computers & Electrical Engineering DOI:10.1016/j.compeleceng.2015.12.007
2. Kar, M., Mandal, M. K., Nandi, D., Kumar, A., Banik, S. 2016. Bit-plane encrypted image cryptosystem using chaotic quadratic and cubic maps. IETE Technical Review (Taylor & Francis) DOI: 10.1080/02564602.2015.1136245
3. Kumar, D., Mitra, D., 2016. Design of a practical fault-tolerant adder in QCA. Microelectronics Journal (Elsevier) 53, 90-104.
* Repeated in other departments

Department of Management Studies

1. Banerjee Neelotpaul, & Siddhanta Somroop (2015), "An Empirical Investigation on the Impact of Marketing Communication Expenditure on Firm's Profitability: Evidence from India", Global Business Review, Vol.16, No.4, 609-622.
2. Banerjee, M., Bandyopdhyay. G., et.al. Impact of environmental factors on maintaining water quality of Bakreswar reservoir, India, Computational Ecology and Software, 2015, 5(3): 239-253.
3. Chakrabarty, A., De, A., Gunasekarand, A., Debey, R. 2015. Investment horizon heterogeneity and wavelet: Overview and further research directions. Physica A: Statistical Mechanics and its Applications, Elsevier, Vol. 429, p.p. 45–61
4. Chakravorty,S., Pal, M., Roy,M., Pal,P., Fluoride in Groundwater: Low cost Separation and Stabilization

by Response Surface Optimization,IJEST,(Springer), DOI: 10.1007/s13762-015-0904-0
5. Majumdar Malini Nandi Dutta Avijan , Banerjee Sreeja - A Review on Existing Coping Mechanisms: An Exploratory Study on Police Personnel of West Bengal, India. Indian journal of science and technology Vol. 9, Issue 3, January 2016
6. Pal, D., Srivastava, P., 2016. An Empirical Study on Psychological Capital, Demography and Employee Happiness: A Relational Perspective. Journal of the Indian Academy of Applied Psychology 42(1), 63-71.
7. Roy,M., Khastagir, D. Exploring Role of Green Management in Enhancing Organisational Efficiency in Petro-Chemical Business in India, JCLP, Elsevier Science , 121(2016)109-115.
8. Sen ,P., Roy, M. , Pal,P., Exploring role of environmental proactivity in financial performance of manufacturing enterprises: a structural modelling approach' , JCLP, Elsevier, 108(2015)583-594.

Department of Mathematics

1. Adak, U., Dey, L.K., 2015. Linear bounded phase coordinate control problems in 2-Banach spaces. AfrikaMatematika. doi: 10.1007/s13370-015-0366-z.
2. Banerjee, G. Maitra, S., 2015. Pseudopotential approach for dust acoustic solitary waves in dusty plasma with kappa distributed ions and electrons and dust grains having power law size distributions. Physics of Plasmas 22(4), 043708.
3. Bera, B.K., Hens, C.R., Bhowmick, S.K., Pal, P., Ghosh, D., 2015. Transition from homogeneous to inhomogeneous steady states in oscillators under cyclic coupling. Phys. Lett. A 380, 130 - 136.
4. Chatterjee, K., Bandyopadhyay, A. Ghosh, A., Kar, S., 2015. Assessment of environmental factors causing wetland degradation using Fuzzy Analytic Network Process: A case study of Keoladeo National Park, India. Ecological Modelling 316, 1-13.
5. Das, D., Roy, A., Kar, S., 2015. A multi-warehouse partial backlogging inventory model for deteriorating items under inflation when a delay in payment is permissible, Annals of Operations Research 226 (1), 133-162.
6. De, N., Nayeem, S. M. A., Pal, A., 2015. Reformulated First Zagreb index of Some Graph Operations. Mathematics 3, 945-960. doi: 10.3390/math3040945.
7. De, N., Nayeem, S. M. A., Pal, A., 2015. The F-index of some graph operations. Discrete Mathematics, Algorithms and Applications. Doi: http://dx.doi.org/10.1142/S1793830916500257.
8. De, N., Nayeem, S. M. A., Pal, A., 2016. The F-coindex of some graph operations. Doi: 10.1186/s40064-016-1864-7.
9. Gao, Y., Yang, L., Li, S., Kar, S., 2015. On distribution function of the diameter in uncertain graph. Information Sciences 296, 61 - 74.
10. Ghosh, D., Dey, L.K., 2015. On some parametric classifications of quasi-symmetric 2-designs. Tamkang Journal of Mathematics, 46(3), 269-280.
11. Ghosh, D., Pal, A., 2015. Using Induced fuzzy Bi-model to analyze Employee Employer Relationship in an Industry. Int. J. Comp. Sc. and Applications 6(7), 87-99.
12. Hens, C.R., Pal, P., Dana, S.K., 2015. Bursting dynamics in a population of oscillatory and excitable Josephson junction. Phys. Rev. E 92, 022915.
13. Kundu, P. Kar, S., Maiti, M., 2015. Multi-item Solid Transportation Problem with Type-2 Fuzzy Parameters, Applied Soft Computing 31, 61-80.
14. Mishra, S. N., Pal, A., 2016. Intuitionistic Fuzzy Signed Graphs. International Journal of Pure and Applied Mathematics 106(7), 113-122.
15. Mondal, S., Dey, L.K., 2016. Some common best proximity point theorems in a complete metric space. AfrikaMatematika, doi: 10.1007/s13370-016-0432-1.
16. Mukhopadhyay, J., Pal, A., Mukhopadhyay, S., Singh, V. K., 2016. Participatory Sensing in Online Double Auction Environment. International Journal of Pure and Applied Mathematics 106(7), 109-120.
17. Nandukumar, Y., Kundu, P., Paul, S., Pal, P., 2016. Different routes to chaos in low Prandtl-number Rayleigh–Bénard convection. Int. J. Non-Linear Mech. 81, 261 – 267.
18. Nandukumar, Y., Pal, P., 2015. Oscillatory instability and routes to chaos in Rayleigh-Bénard convection: Effect of external magnetic field. Europhys. Lett. 112, 24003.
19. Paul, S., Pal, M., Pal, A., 2015. L(2,1) – labeling of interval graphs. Journal of Applied Mathematics and Computing. doi: 10.1007/s12190-014-0846-6.
20. Qin, Z., Kar, S., 2016. Uncertain portfolio adjusting model using semi-absolution deviation, Soft Computing 20(2), 717-725, 2016.

21. 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 53(16), 4993-5016.
22. Saha, A., Kar, S., Maiti, M., 2015. Multi-item fuzzy-stochastic supply chain model for long-term contract with a profit sharing scheme, Applied Mathematical Modellings 39, 2815-2828.
23. Senapati, T., Dey, L.K., Djekic, D.D., 2016. Extensions of Ciric and Wardowski type fixed point theorems in D-generalized metric spaces. Fixed Point Theory Appl., 2016(33), 1-14.
24. Sheng, Y., Kar, S., 2015. Some results of moments of uncertain variable through inverse uncertainty distribution, Fuzzy Optimization and Decision Making14, 57-76.
25. Sinha, A. K., Rana, A., Pal, A., 2016. Signed star Domination Number on Proper Interval Graphs. International Journal of Pure and Applied Mathematics 106(7), 123-129.
26. Wang, D., Qin, Z., Kar, S., 2015. A novel single-period inventory problem with uncertain random demand and its application, Applied Mathematics and Computation 269, 133 – 145.

* Repeated in other departments

Department of Mechanical Engineering

1. Banerjee, P., Kundu, R., Singh, M., Dubey, P. K., Hui, N. B., 2016. FE Based Simulation of Forward Flow Forming Process, International Journal of Research in Mechanical Engineering, 4(2), 01-05.
2. Das D., Rajgadia S., Karki A., Basnet A., Jaiswal P., Jaiswal R., Jha A. R., Barman R. N., "Design And Finite Element Analysis Of Connecting Rod Using Solidworks And ANSYS Workbench", (IJREAT), Volume 3, Issue 4, Aug-Sept, 2015, ISSN: 2320 – 8791.
3. Jaiswal R., Jha A. R., Karki A., Das D., Jaiswal P., Rajgadia S., Basnet A., Barman R. N., "STRUCTURAL AND THERMAL ANALYSIS OF DISC BRAKE USING SOLIDWORKS AND ANSYSYS", (IJMET), Volume 7, Issue 1, Jan-Feb 2016, ISSN Print: 0976-6340, ISSN Online: 0976-6359, Article ID: IJMET_07_01_008, pp. 67-77.
4. Khankari G., Karmakar S., 2016 Combined Thermal-Hydro Power Generation: A Novel Approach of Plant Capacity Addition. International Journal of Renewable Energy Research 6(1), 1366-1374.
5. Mitra, R. K., Chatterjee, S., Banik, A. K. 2015. Limit cycle oscillation and multiple entrainment phenomena in a Duffing oscillator under time-delayed displacement feedback. Journal of vibration and control, SAGE, 1077546315621214.*
6. Rajgadia S., Das D., Jaiswal P., Basnet A., Jha A. R., Jaiswal R., Karki A., Barman R. N., "Design and Stress-Analysis of a Rigid Flange Coupling using FEM", (IJIRSET), Vol. 4, Issue 10, October 2015, ISSN (Online): 2319-8753, ISSN (Print): 2347-6710
7. V, Banerjee, N., AmuthakKannan, R., Rajakumar, S. 2015. Microstructure and Mechanical Properties of Friction Stir Welded Joints of Dissimilar AA6061-T6 and AA7075-T6 Aluminium Alloys, Applied Mechanics and Materials Vol. 787 pp 350-354.,TransTech Publication (SCI)(doi:10.4028/www.scientific.net/AMM. 787.350)(http://www.ttp.net/978-3-03835-553-3/7.html).

* Repeated in other departments

Department of Metallurgical and Materials Engineering

1. Bandyopadhyay B, Mishra D, Bhattacharyya A and Mallik M, 2015. Modification of the Cast Structure in a Cu-12.6 wt% Sn Alloy by Heat Treatment in the Semisolid State, Metallurgical and Materials Transactions B, 46, 2062-2071
2. Banerjee A, Tungala V, Sala K, Biswas K and Maity J, 2015. A comparative study on the dry sliding wear behaviour of mild steel and 6061Al-15 wt.% SiCp Composite", Journal of Materials Engineering and Performance, 24 (6), 2303-2311.
3. DOI: 10.1007/s11665-015-1508-z
4. Das. P, Samanta SK., Bera S., Dutta, P., 2016. Microstructure Evolution and Rheological Behavior of Cooling Slope Processed Al-Si-Cu-Fe Alloy Slurry, 47, 2243-2256.
5. Das S.K, Mandal D, Sahoo K.L, 2015. Neural Modeling and Experimental investigation of the erosion characteristic of boiler grade steels impacted by fly ash, Journal of Materials Engineering and Performance, 24 (9), 3513-3526
6. Kumar, D., Roy, H., Show, B. K., 2015. Triological behaviour of an aluminium matrix composite with Al4SiC4 reinforcement under dry sliding condition. Tribology Transactions58, 518–526.
7. Mishra A and Maity J, 2015. Structure-property correlation of AISI 1080 steel subjected to cyclic quenching treatment, Materials Science and Engineering A, 646, 169-181.
8. doi :10.1016 / j.msea.2015.08.018

9. Mishra A, Saha A and Maity J, 2015. Microstructure evolution in AISI 1080 eutectoid steel under cyclic quenching treatment, Metallography, Microstructure, and Analysis, 4 (5) 355-370. (DOI 10.1007/s13632-015-0222-4)
10. Mishra A, Saha A and Maity J, 2016. Development of high strength ductile eutectoid steel through cyclic heat treatment involving incomplete austenitization followed by forced air cooling, Materials Characterization, 114, 277-288.
11. Mondal M, Biswas K, Saha A, Maity J, 2015. Dry sliding wear behaviour of a novel 6351 Al-Al4SiC4 composite, Journal of Materials Engineering and Performance, 24 (2), 759-770. (DOI: 10.1007/s11665-014-1366-0)
12. Mondal M. K., Biswas K., Maity J., 2016. Dry sliding wear behaviour of a novel 6351 Al-Al4SiC4 composite at high loads. Canadian Metallurgical Quarterly, The Canadian Journal of Metallurgy and Materials Science 55(1), 75-93.
13. Mondal M. K. , Biswas K., Maity J., 2016. A Transient Heat Transfer Model for Assessment of Flash Temperature During Dry Sliding Wear in a Pin-on-Disk Tribometer., Metallurgical and Materials Transactions A 47A, 600-607.
14. Shukla, N., Das, S., Maji, S., Chowdhury, S. R., Show, B. K. 2015. Effect of Pre-intercritical Annealing Treatments on the Microstructure and Mechanical Properties of 0.33% Carbon Dual-Phase Steel. Journal of Materials Engineering and Performance 24, 4958–4965.
15. Shukla, N., Roy, H., Show, B. K. 2015. Tribological behaviour of a 0.33 % 'C' dual phase steel with pre I/C 'hardening and tempering' treatment under abrasive wear condition. Tribology Transactions, Published online, DOI: 10.1080/10402004.2015.1094841.
16. Shukla, N., Roy, H., Show, B. K. 2015. Effect of prior austempering heat treatment on the microstructure, mechanical properties and high stress abrasive wear behaviour of a 0.33 % C dual phase steel. Canadian Metallurgical Quarterly, Published online, DOI:10.1080/00084433.2015.1113671.
17. Sushanthi N and Maity J, 2015. An independent modeling approach for prediction of hardenability in steels, Steel Research International, 86 (4), 329-340. (DOI: 10.1002/srin.201400054)
* Repeated in other departments

Department of Physics

1. Banerjee D., Dharai C., Sahoo S., 2015. Search for the and decays in flavor-changing - model", Brazilian Journal of Physics, Vol. 45, Issue. 5, pp. 545–549.
2. Barman, C., Chaudhuri, H., Deb, A., Ghose, D., Sinha, B., 2015. The Essence of Multifractal Detrended Fluctuation Technique to Analyse the Dynamics of Pre-seismic Soil Radon Time Series. Natural Hazards 78 (2), pp. 855-877.
3. Bhowmik K., Mondal A., 2015. Si NW network by Ag nanoparticle assisted etching and TiO2/Si NWs as Photodetector. Electron. Mater. Lett. 11(2), pp 180-186.
4. Biswas, S., Kole, A.K., Kumbhakar, P., 2015. Observation of two photon induced three photon absorption in chemically synthesized silver nanostructures, Chemical Physics Letters, 629, 70–75.
5. Biswas, S., Kole, A. K., Tiwary, C. S., Kumbhakar, P., 2016. Observation of size-dependent electron–phonon scattering and temperature-dependent photoluminescence quenching in triangular-shaped silver nanoparticles, Plasmonics, 11, 593-600.
6. Biswas, S., Kole, A. K., Tiwary, C. S., Kumbhakar, P., 2016. Enhanced nonlinear optical properties of silver-graphene oxide nanocomposite measured by Z-Scan technique, RSC Advances 6, 10319-10325.
7. Chatterjee, S.G., Chatterjee, S., Ray, A.K., Chakraborty, A.K. 2015. "Graphene–metal oxide nano-hybrids for toxic gas sensor: A review", Sensors and Actuators B: Chemical 221, 1170-1181.
8. Chinnamuthu P., Mondal A., Dhar J.C., Singh N.K., 2015. Visible light detection using glancing angle deposited TiO2 nanowire arrays.Japanese Journal of Applied Physics 54, pp 06FJ01-3
9. Choudhury,S., Sain,S., Mandal,M.K., Pradhan,S.K., Meikap,A.K., "Investigation of dielectric and electrical behaviour of nanocrystalline Zn1-xMnxO (x = 0 to 0.1) semiconductors synthesized by mechanical alloying", Physica E, Vol. 81, pp. 122-130, March 2016. DOI:10.1016/j.physe.2016.02.049
10. Choudhury,S., Sain,S., Mandal,M.K., Pradhan,S.K., Meikap,A.K., "Microstructure characterization and electrical transport of nanocrystalline Zn0.9Mn0.1O smiconductors synthesized by mechanical alloying", Materials Research Bulletin, Vol.77, pp. 138–146, January 2016. DOI:10.1016/j.materresbull.2016.01.029

11. Das, A. K., Sinha, S., Mukherjee, A., Meikap, A. K., 2015. Enhanced Dielectric Properties in Polyvinyl Alcohol - Multiwall Carbon Nanotube Composites, Mater. Chem. Phys. 167, 286-294.
12. Dubey, D.K., Singh, D.N., Kumar, S., Nayak, C., Kumbhakar, P., Jha, S.N., Bhattacharya, D., Ghosh, A.K., Chatterjee, S., 2016. Local structure and photocatalytic properties of sol–gel derived Mn–Li co-doped ZnO diluted magnetic semiconductor nanocrystals, RSC Advances, 6, 22852-22867.
13. Goswami, M., Ghosh, R., Maruyama T., Meikap, A. K., 2016. Polyaniline/Carbon Nanotube/CdS Quantum Dot Composites with Enhanced Optical and Electrical Properties, Applied Surface Science 364, 176-180.
14. Goswami T., Mondal A., Singh P., Choudhuri B., 2015. In2-XO3-Y 1D Perpendicular Nanostructure Arrays as Ultraviolet Detector. Solid State Sciences 48, pp 56-60
15. Gupta, R. K., Chaudhuri, H., 2015. Simple Instrumentation for the Study of Complex Earthquake. Journal of the Instrument Society of India 45 (4), pp. 223-227.
16. Jana, R. N., Sinha, S., Meikap, A. K., 2016. Anomalous dephasing scattering time of Zr80Sn20-xFex alloys at low temperature, Physica E 77, 7-12.
17. Jana, R. N., Sinha, S., Meikap, A. K., 2015. Linear mean free path and quadratic temperature dependence of Electron-phonon scattering rate in V82Al18-xFex alloys at low temperature, AIP Advances 5, 057110 (1-9).
18. Manna B., Sinha S., Sahoo S., 2016. Exact Solution of Non-Static Cylindrical Symmetric Perfect Fluid Distribution in Einstein-Cartan Theory", Gravitation and Cosmology, Vol. 22, No. 1, pp. 44–47.
19. Mandal, D., Mandal,M.K., Garai,S.K., "Frequency encoded data based optical full adder using reversible Toffoli gates", Journal of Optics, DOI 10.1007/s12596-016-0322-9.
20. Mandal,M.K., Kar, M., Nandi,D., "Bit-plane Encrypted Image Cryptosystem using chaotic quadratic and cubic maps", IETE Technical Review http://dx.doi.org/10.1080/02564602.2015.1136245
21. Meriga, V., Valligatla, S., Sundaresan, S., Cahill, C., Dhanak, V.R., Chakraborty, A.K., 2015. "Optical, electrical, and electrochemical properties of graphene based water soluble polyaniline composites", Journal of Applied Polymer Science 132 (45), 42766.
22. Mondal,H., Mandal,M.K., "PLL based Clock Recovery Circuit using Ring Oscillator", International Journal of Electronics Letters DOI: 10.1080/21681724.2015.1067841
23. Mukherjee A., Basu S., Manna P. K., Yusuf S. M. and Pal M., 2015 Enhanced magnetodielectric and multiferroic properties of Er doped bismuth ferrite nanoparticles, Materials Chemistry and Physics 162, 140-148
24. Mukherjee A., Basu S. , Thanh N. T. K. , Green L. A. W. , and Pal M.,2015 Enhanced multiferroic properties of Y and Mn codoped multiferroic BiFeO3 nanoparticles, J. Mater. Sci., 50, 1891-1900
25. Saha, S., Mondal, A., Choudhuri, B., Goswami, T., Sarkar, M. B., Chattopadhyay, K. K., 2016. TiO2 nanowires/ PMMA based hybrid photodetector: improved light detection.J. Nanoscience and Nanotechnology 16(3), pp. 2737-2741.
26. Saha, S., Nandy, A., Meikap, A. K., Pradhan, S. K., 2015. Electric modulus formalism and Electrical Transport Property of Ball Mill synthesized Nanocrystalline Mn doped ZrO2 Solid Solution, Physica B 479, 67-73.
27. Saha, S., Nandy, A., Meikap, A. K., Pradhan, S. K., 2015. Microstructure characterization and electrical transport properties of nanocrystalline Fe and Fe-doped Cubic Zirconia Cermets Synthesized by Mechanical Alloying, Mater. Res. Bull. 68, 66-74.
28. Sahoo B., Chakraborty S., Sahoo S., 2016. Nuclear Symmetry Energy in terms of Single Nucleon Potential and Its effect on the Proton Fraction of β - stable npeμ matter. Physics of Atomic Nuclei, Vol. 79, No. 1, pp. 1–10.
29. Sarkar, B., Koley, C., Roy, N.K., Kumbhakar, P., 2015. On-line condition assessment of power transformers using wideband FBG based acoustic sensor, Proc. SPIE 9654, International Conference on Optics and Photonics 2015, 96540Z (June 15, 2015); doi:10.1117/12.2181394.
30. Sarkar, B., Koley, C., Roy, N.K., Kumbhakar, P., 2015. Condition monitoring of high voltage transformers using Fiber Bragg Grating Sensor, Measurement, 74, 255-267.
31. Sarkar M.B., Mondal A., Choudhuri B., 2016. Presence of capacitive memory in Indium doped TiO2 alloy thin film. Journal of Alloys and Compounds 654, pp 529-533.

32. Singh, D. P., Daoudi, A., Gupta, S. K., Pandey, S., Vimal, T., Manohar, R., Kole, A. K., Kumbhakar, P., Kumar, A., 2016. Mn2+ doped ZnS quantum dots in ferroelectric liquid crystal matrix: Analysis of new relaxation phenomenon, faster optical response, and concentration dependent quenching in photoluminescence, Journal of Applied Physics, 119, 094101 (14pp).
33. Sinha, R., Basu, S., Meikap, A. K., 2015. Investigation of dielectric and electrical behavior of Mn doped YCrO3 nanoparticles synthesized by sol gel method, Physica E 69, 47-55.
34. Sinha, S., Chatterjee, S. K, Ghosh, J., Meikap, A. K., 2015. Electrical transport properties of ZnSe quantum dots at and above room temperature, Current Applied Physics 15, 555-562.
35. Tiwary, C. S., Vishnu, D., Kole, A. K., Brahmanandam, J., Mahapatra, D. R., Kumbhakar, P., Chattopadhyay, K., 2016. Stabilization of the high-temperature and high-pressure cubic phase of ZnO by temperature-controlled milling, Journal of Materials Science, 51, 126-137.
36. Usha, K., Kumbhakar, P., Mondal, B., 2016. Effect of Ag-doped TiO2 thin film passive layers on the performance of photo-anodes for dye-sensitized solar cells, Materials Science in Semiconductor Processing, 43, 17-24.

Annexure–11.4(c) ii. Research papers accepted for publication in SCI / SCOPUS / Web of Science

Department of Biotechnology

1. Mitra, R., Samanta, A.K., Chaudhuri, S., Dutta D., 2016. Effect of selected physico-chemical factors on bacterial b-cryptoxanthin degradation: stability and kinetic study. Journal of Food Process Engineering (Accepted), doi:10.1111/jfpe.12379. February 12, 2016.

Department of Civil Engg.

1. Bandyopadhyay, M., Banik, A.K., and Datta, T. 2015. Progressive Collapse of Three Dimensional Semi-Rigid Jointed Steel Frames. Journal of Performance of Constructed Facilities, ASCE. Accepted for publication in April 2015.
2. Mitra, R.K., Chatterjee, S. and Banik, A.K., 2015. Limit cycle oscillation and multiple entrainment phenomena in a duffing oscillator under time-delayed displacement feedback, Journal of Vibration and Control. Accepted for publication in December 2015 1077546315621214 (doi: 10.1177/1077546315621214).

Department of Computer Applications

1. Banerjee, S., Sarkar, A. 2016., Ontology Driven Approach towards Domain Specific System Design, International Journal of Metadata, Semantics and Ontologies, (Inderscience Publications), (Accepted, manuscript id: IJMSO-123606).

Department of Computer Science and Engineering

1. Dalui, M., Sikdar, B. K., 2016. A cache system design for CMPs with built-in coherence verification. VLSI Design Journal, Hindawi.

Department of Electrical Engineering

1. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016, Hybrid GSADE algorithm for Optimization of Far Field Radiation Pattern of Circular Arrays, Annals of Telecommunications, Springer.
2. Maji, K. B., Kar, R., Mandal, D., Ghoshal, S.P, 2016,An Evolutionary Approach Based Design Automation of Low Power CMOS Two-Stage Comparator and Folded Cascode OTA, AEÜ International Journal of Electronics and Communications, Elsevier.
3. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2016,Soft Computing based Approach for Optimal Design of On-Chip Comparator and Folded-cascode Op-Amp Using Colliding Bodies Optimization, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley.
4. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2016,PSO with Aging Leader and Challengers for Optimal Design of High Speed Symmetric Switching CMOS Inverter, International Journal of Machine Learning and Cybernetics, Springer.
5. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2016,Optimal Design of High Speed Symmetric Switching CMOS Inverter using Hybrid Harmony Search with Differential Evolution,Soft Computing, Springer.
6. Dey, B. P., Kar, R., Mandal, D., Ghoshal, S.P., 2016,An Efficient Design of CMOS Comparator and Folded Cascode Op-Amp Circuits using Particle Swarm Optimization with an Aging Leader and Challengers Algorithm, International Journal of Machine Learning and Cybernetics, Springer.

7. Upadhyay, P., Kar, R., Mandal, D., Ghoshal S.P.,2016, A 12T MT-CMOS Low Power and Low Leakage SRAM cel", International Journal of Computer Aided Engineering and Technology, Inderscience.
8. Upadhyay, P., Kar, R., Mandal, D., Ghoshal S.P.,2016,A new design method based on Firefly Algorithm for IIR System Identification Problem, Journal of King Saud University - Engineering Sciences, Elsevier.
9. Upadhyay, P., Kar, R., Mandal, D., Ghoshal S.P.,2016,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.
10. Upadhyay, P., Kar, R., Mandal, D., Ghoshal S.P.,2016, A Novel Design for High SNM and Low Power Dissipation of a Low Voltage Swing 8T SRAM cell, Alexandria Engineering Journal, Elsevier.
11. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P.,2016, Improvement in Various Radiation Characteristics of Time Modulated Linear Antenna Arrays Using Evolutionary Algorithms, Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis.
12. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P.,2016,Simultaneous Improvement of Directivity and SLL of Time Modulated Linear Antenna Arrays Using Opposition based Harmony Search Algorithm, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley.
13. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P.,2016,Opposition Based BAT Algorithm for Optimal Design of Circular and Concentric Circular Arrays With Improved Far Field Radiation Characteristics,International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley.
14. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016, Directivity and SLL Optimization of Time Modulated Concentric Circular Antenna Array Using Cat Swarm Optimization,IEEE Transactions on Antennas & Propagation.
15. Mallick S., Kar R., Mandal D., Ghoshal S.P., 2016,Optimal Sizing of CMOS Analog Circuits using Gravitational Search Algorithm with Particle Swarm, International Journal of Machine Learning and Cybernetics, Springer.
16. Mallick, S., Kar, R., Mandal, D., Ghoshal, S.P., 2016,Optimal Sizing and Design of CMOS Analog Amplifier Circuits using Craziness based Particle Swarm Optimization, International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, Wiley.
17. Mallick, S., Kar, R., Mandal, D., Ghoshal, S.P.,2016,CMOS Analog Amplifier Circuits Optimization using Hybrid Backtracking Search Algorithm with Differential Evolution, Journal of Experimental & Theoretical Artificial Intelligence, Taylor & Francis .
18. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016,Pencil Beam Pattern Synthesis of Time Modulated Concentric Circular Antenna Array Using PSO with Aging Leader and Challenger, Journal of Electromagnetic Waves and Applications, Taylor & Francis.
19. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016,Directivity Improvement and Optimal Far Field Pattern of Time Modulated Concentric Circular Antenna Array Using Hybrid Evolutionary Algorithms, International Journal of Microwave and Wireless Technologies, Cambridge University Press.
20. Ram, G., Mandal, D., Kar, R., . Ghoshal, S. P., 2016,PSOIIW Approach for Nulling by RF Switch in Time Modulated Linear Antenna Arrays, Journal of Systems Engineering and Electronics, Elsevier.
21. Ram, G., Mandal, D., Kar,R., . Ghoshal, S. P., 2016,Analysis for Optimal Pattern Synthesis of Time Modulated Concentric Circular Antenna Array Using Memetic Firefly Algorithm,Memetic Computing, Springer.
22. Pal, P.S., Kar, R., Mandal, D., Ghoshal, S.P.,2016,A Hybrid Backtracking Search Algorithm with Wavelet Mutation Based Nonlinear System Identification of Hammerstein Models, Signal, Image and Video Processing, Springer.
23. Pal, P.S., Kar, R., Mandal, D., Ghoshal, S.P.,2016, Identification of Two Stage Cascaded Closed-Loop Nonlinear Models with Performance Study Using Monarch Butterfly Optimization Algorithm, IET Signal Processing.
24. Pal, P.S., Kar, R., Mandal, D., Ghoshal, S.P.,2016, Identification of NARMAX Hammerstein Models with Performance Assessment using Brain Storm Optimization Algorithm, International Journal of Adaptive Control and Signal Processing, Wiley.
25. Mallick, S., Kar, R., Mandal, D., Ghoshal, S.P.,2016,Optimal Design of CMOS Analog Amplifier Circuits using SEOA, Int. J. of Bio-Inspired Computation (IJBIC), Inderscience.

26. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016,Optimal Array Factor Radiation Pattern Synthesis of Linear antenna Array with Validation by EM Simulator, Frontiers of Information Technology & Electronic Engineering, Springer.
27. Pal, P.S., Kar, R., Mandal, D., Ghoshal, S.P., 2016,Parametric Identification with Performance Assessment of Wiener Systems Using Brain Storm Optimization Algorithm, Circuits, Systems & Signal Processing, Springer.
28. Maji, K.B., Kar, R., Mandal, D., Ghoshal, S.P., 2016, Optimal Design of Three-Stage CMOS Operational Amplifier Using PSO, Perspectives in Science, Elsevier.
29. Dey, B.P., Kar, R., Mandal, D., Ghoshal, S.P., 2016,Optimal Switching Characterization of High Speed CMOS Inverter Design Using Social Emotional Optimization Algorithm, Alexandria Engineering Journal, Elsevier.
30. Ram, G., Mandal, D., Kar, R., Ghoshal, S.P., 2016, Null placement in Time Modulated Linear Antenna Arrays of Dipole element, IETE Journal of Research, Taylor & Francis.
31. Bera, R., Mandal, D., Kar, R., Ghoshal, S.P., 2016,Concentric array antenna synthesis for Side-Lobe Level reduction using CRPSO techniqu, Perspectives in Science, Elsevier.
32. Banerjee, S., Guha, D., Roy, P., 2016, Oppositional Biogeography Based Optimization Applied to SMES and TCSC Based Load Frequency Control with Generation Rate Constraints and Time delay", International Journal of Power and Energy Conversion (IJPEC), Inderscience. .
33. Banerjee, S., Guha, D., Roy, P., 2016, Krill herd algorithm for automatic generation control with FACTS controller including superconducting magnetic energy storage units, The Journal of Engineering, IET.
34. Banerjee, S., Guha, D., Roy, P., 2016, Solutions of UPFC based Load Frequency Control using Quasi-Oppositional Biogeography Based Optimization Considering Various Nonlinearities of Power System", International Journal of Power and Energy Conversion (IJPEC), Inderscience.
35. Banerjee, S., Ghosh, A., Sarkar, M. K., 2016, System and Method for obtaining simultaneous levitation and rotation of a ferromagnetic object, Journal of The Institution of Engineers (India): Series B, Springer Publication (in press).

Department of Electronics and Communication Engineering

1. Chandra, A., Prokes, A., Kukolev, P., Mikulasek, T., Zemen, T., Mecklenbrauker, C., March 27, 2016. Frequency-domain in-vehicle UWB channel modelling. IEEE Transactions on Vehicular Technology, Article in press doi: 10.1109/TVT.2016.2550626..
2. Majumder,A., Sarkar, M., February 5, 2016. Dissimilar Regulatory Actions Between Neurodegenerative Disease Pairs using Probabilistic Differential Correlation. Advances in Intelligent Systems and Computing (Springer).
3. Sarkar, M., Majumder, A., February 5, 2016. Multiobjective Selection of Differentially Ranked Genes. Advances in Intelligent Systems and Computing (Springer).
4. Bhowmick, A., Dhar Roy, S., Kundu, S., Joint Impact of Sensing Time and IED Parameter on the Performance of an Energy Efficient Cognitive Radio System. IJCS, Wiley.
5. Bhowmick, A., Dhar Roy, S., Kundu, S., Cognitive Radio Network with Continuous Energy-Harvesting. IJCS Wiley. March 2016.
6. Prasad, B., Bhowmick, A., Dhar Roy, S., Kundu, S. Performance of Cognitive Relay Network with Novel Hybrid Spectrum Access Schemes with Imperfect CSI. IJCS Wiley. May 2016
7. Prasad, B., Dhar Roy, S., Kundu, S. Performance of a Cognitive Relay Network under AF Relay Selection Scheme with Imperfect Channel Estimation. Radio Engineering Proceedings of Czech and Slovak Technical Universities. DOI: 10.13164/re.2016.0289, June 2016, pp 289-296.

Department of Earth and Environmental Study

1. Adak, S., Adhikari, K., Brahmachari, K., 2016. GIS based evaluation of crop suitability for agricultural sustainability in an area affected by coal fired thermal power plant; Journal of Environmental Biology ; Accepted
2. Mazumder S., Adhikari, K., Mitra, D.S., Mahapatra, S., Pangtey, K.K.S., 2016. A Neotectonic based Geomorphic Analysis using Remote Sensing data to delineate potential areas of hydrocarbon exploration: Cachar area, Assam; J. of the Geological Society of India; Accepted

Department of Management Studies

1. Mandal, K and Banerjee, S. An Empirical Comparison Between Societal Expenditure and Marketing Expenditure on bank's performance, Global Business Review, (Accepted on October 1, 2015).
2. Mandal, K and Roy, K. Quest for variation in inter-firm influence: An Empirical exploration. Indian Journal of Marketing, (accepted on 30 March 2016).

Department of Mathematics

1. Kundu, P., Kar, M. B., Kar, S., Pal, T., Maiti, M., A Solid Transportation Model with Product Blending and Parameters as Rough Variables, Soft Computing, Springer, (23 November, 2015).
2. Kundu, P., Kar, S., Maiti, M., 2016. A fuzzy multi-criteria group decision making based on ranking interval type-2 fuzzy variables and an application to transportation mode selection problem, Soft Computing, Springer, (29 December, 2015).
3. Mandal, K.,Basu, K., 2016. Improved similarity measure in neutrosophic environment & its application in finding minimum spanning tree;Journal of intelligence & fuzzy system, (29April ,2016).
4. Senapati, T., Dey, L.K., 2015. Common fixed point theorems for multivalued $\beta^{*}-\psi$-contractive mappings; Thai Journal of Mathematics, (21 March, 2015).
5. Yang, X., Gao, J., Kar, S., 2016.Uncertain Calculus with Yao Process, IEEE Transactions on Fuzzy Systems, DOI 10.1109/TFUZZ.2016.2543743 (February, 2016).

Department of Mechanical Engineering

1. Mitra, R. K., Banik A. K. and Chatterjee S. State feedback control of surge oscillations of a two-point mooring system. Journal of sound and vibration, Elsevier.
2. Rana S. C. and Sujith R. I. 2015. Bifurcation characteristics and flame dynamics of a ducted non-premixed flame with finite rate chemistry. Combustion Theory and Modelling.

Department of Metallurgical and Materials Engineering

1. Gaurav G, Murtaza Q, Yuvraj N, Mandal D, Sahoo K.L and Murmu L, 2015. Synthesis and Effect of Misch Metal on Mechanical Properties of Conventional Cast Mg-Al-Zn-Sn-Pb alloy System, Journal of Materials Design and Applications, (Accepted 24th Aug 2015) online Published on 16th Sep 2015 doi: 10.1177/1464420715606168
2. Mishra A, Mondal C and Maity J, 2015. Microstructural modifications in AISI 1080 eutectoid steel under combined cyclic heat treatment, Steel Research International, Accepted for publication (on August 31, 2015), Published online on September 23, 2015. DOI: 10.1002/srin.201500227
3. Rout P. K., Ghosh. M.M, and Ghosh K.S, 2015. Influence of Aging Treatments on Alterations of Microstructural Features and Stress Corrosion Cracking Behavior of an Al-Zn-Mg Alloy, Journal of Materials Engineering and Performance (Accepted) In Press, 2015.

Department of Physics:

1. Chakrabartty S., Mondal A., Chakrabarti A., Singh S.K., Saha A. K., Singh P., Synthesis of biocompatible TiO2 nanodots: Glancing angle deposition technique. J. Nanoscience and Nanotechnology Accepted on Apr 22, 2015
2. Chakrabartty S., Mondal A., Saha A. K., "Effect of Annealing on Optical, Electrical and Charge Trapping Properties of TiO2 Nanoparticles Arrays. J. Nanoscience and Nanotechnology. Accepted on Dec 3, 2015
3. Choudhuri B., Mondal A., Saha A., "Enhanced photodetection from TiO2-SiOx-TiO2 N-I-N Schottky device. Journal of Electronic Materials Accepted on 28.04.16
4. Choudhury, S., Sain, S., Mandal, M. K., Pradhan, S. K., Meikap, A. K., 2016. Microstructure Characterization and Electrical Transport of Nanocrystalline Zn0.90Mn0.10O Semiconductors Synthesized by Mechanical Alloying, Mater. Res. Bull. (Accepted, January 2016) (In Press).
5. Choudhury, S., Sain, S., Mandal, M. K., Pradhan, S. K., Meikap, A. K., 2016. Investigation of dielectric and electrical behaviour of Nanocrystalline Zn1-xMnxO (x = 0 to 0.10) Semiconductors Synthesized by Mechanical Alloying, Physica E (Accepted, February 2016) (In Press).
6. Das D. K., Santra S., Sahoo S., 2016. Graphene coating on cutting tools can remove the use of coolants", Journal of NanoScience, NanoEngineering & Applications, Vol. 6, Issue 1, pp. 1–5.
7. Das, R., Gupta, R. K., Chaudhuri, H., 2016. Non-Linear Analysis of Geochemical Precursor for Earthquake. Journal of the Instrument Society of India (April 21, 2016)

8. Mukherjee, P. S., Gupta, K., Chakraborty, G., Meikap, A. K., 2014. Response of magnetic field and temperature on electrical transport of polyaniline-malic acid nanocomposite, Polymer Composites (Accepted, September 2014) (In Press).
9. Sahoo S., Maji P., 2015. Higgs boson and boson",ARPN Journal of Science and Technology, Vol. 5, No. 5, pp. 238 – 241.
10. Sinha, S., Chatterjee, S. K, Ghosh, J., Meikap, A. K., 2015. Investigation on the dielectric relaxation and ac conductivity behavior of polyvinyl alcohol (PVA)-Cadmium selenide (CdSe) nanocomposite films, Polymer Composites (Accepted, May 2015) (In Press).

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

Department of Biotechnology

1. Das, K., Ghosh, P., Dey, A., Ganguly, A., Das, S., Chatterjee, P.K., 2015. Studies on the Optimization of Phenolics during Production of Xylitol Water Hyacinth. Europian Journal of Biotechnology and Bioscience, Volume 3,Issue 4, 25-33.
2. Mukherjee, A., Mitra R., Dutta D., 2016. Biological Decolorization of Malachite Green by a Carotenoid Producing Bacterium, International Journal of Biotechnology and Biomedical Sciences 2 (1), 90-92.
3. Sonar, AK., Mitra R., Dutta D., 2016. Effect of Oxidative Stress on Kocuria marina DAGII during β-cryptoxanthin Biosynthesis, International Journal of Biotechnology and Biomedical Sciences 2 (1), 93-95.

Department of Chemical Engineering

1. Kumar, A., Priyadarshinee, R., Singha, S., Dasgupta, D., Mandal, T., 2016. Rice husk ash based silica supported iron catalyst coupled with Fenton-like process for the abatement of rice mill wastewater. Clean Technology and Environmental Policy DOI.10.1007/s10098-016-1165-4 (Accepted)

Department of Chemistry

1. Dutta, S., Ghosh, A., Moi, S.C., Saha, R.N., 2015. Application of response surface methodology for optimization of reactive azo dye degradation process by Fentons's oxidation. Inter J Evr Sci and Development 11, 818-823.

Department of Civil Engineering

1. Aravind N., Samanta, Amiya K., Singha Roy D. K. and Joseph V. Thanikal, 2015. Theoretical Analysis of RC rectangular beam strengthened with FRP composites. Journal of Structural Engineering, 42(2),78-84.
2. Mohanti, A. S. and Datta, A.K., 2015. A study on codal provisions applied to RCC structures: Need for development of common codal provisions. Journal of Civil Engineering and Environmental Technology, 2(4), 304-308.
3. Rajesh Kumar S, Samanta, Amiya K.and Singha Roy D. K., 2015. An Experimental Study on the mechanical properties of alccofine based high grade concrete. International Journal of Multidisciplinary Research and Development (ISSN: 2349-4182), 2(10), 218-223.
4. Sarkar, A,, Sahani, A. K., Singha Roy D. K and Samanta, A.K., 2016. Compressive Strength of Sustainable Concrete Combining Blast Furnace Slag and Fly Ash. The IUP Journal of Structural Engineering, 9(1), 17-26.
5. Sengupta, S., Datta, A.K. and Topdar P., 2015. Issues in structural investigations: vibration based approach vs. elastic wave propagation approach. International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308, 4(13), 285-289.
6. Sinha, S., Datta, A.K. and Topdar P., 2016. A study on modelling of sliding failure of concrete gravity dams due to earthquake. Int. Jl. of Science, Technology and Management, 5(1), 126-135.
7. Bandyopadhyay Milan and Banik A. K., (2016), Progressive collapse of rigid and semi-rigid jointed steel frames according to GSA 2013 and GSA 2003 guidelines, International Journal of Civil and Structural Engineering, 6(3), pp 211-223.

Department of Computer Applications:

1. Chatterjee, R. K., Neha., Sarkar, A. 2015. High Level Petri Net Based Behavioral Model for Multi Agent System, International Journal of Agent Technologies and Systems (IJATS), Vol. 7, Issue 1, 55 – 78.
2. Roy R., Changder S., 2016. Steganography with Projection aided Payload Dimension Reduction and Reconstruction for military covert communication. International Journal of Computer Applications, 32-37

Department of Computer Science and Engineering

1. Guha Thakurta, P. K., Sett, S., 2015. Priority driven call scheduling in mobile networks: A MOGA based approach. Journal of Infocomp. 14 (1), 1-13.
2. Kundu, S., Sarker, G., 2015. A modified SOM based RBFN for rotation invariant clear and occluded fingerprint recognition. Intelligent Computing and Applications, Advances in Intelligent Systems and Computing. 343, 11-18.
3. Pradhan, M., Roy, P.K., Pal, T., 2016. Grey Wolf optimization applied to economic load dispatch problems. International Journal of Electrical Power and Energy Systems, Elsevier. 83, 325-334.
4. Sarker, G., Bhakta, D., 2015. An unsupervised OCA based RBFN for clear and occluded face identification. Intelligent Computing and Applications, Advances in Intelligent Systems and Computing. 343.

Department of Electronics and Communication Engineering

1. Chakraboty, S., Acharyya. A., Biswas, A., Majumder, S., Bhattacharjee, A.K., 2015.Evaluation of Ionization Rate of Electrons in Wurtzite-GAN VIA A Generalized Analytical Model Based on Multistage Scattering Phenomena .Journal of Electron Devices 22,1907-1910.
2. Mandal, D,, Roy, V., Prakas, Chatterjee. A., Bhattacharjee,A.k.,2015.Synthesis of Dual Radiation Pattern of Rectangular Planar Array Antenna Using Evolutionary Algorithm. ICTACT Journal on Communication Technology06(03),1146-1149.
3. Mitra, A., De. A., Bhattacharjee, A. K., May 2015.Integration of Entropy Maximization and Quantum behaved Particle Swarm Algorithm for Unsupervised Change Detection of MR Skull Bone Lesions.International Journal of Computer Applications 117(13),33-39.
4. Si, T., De. A., Bhattacharjee, A.K.,2015. Brain's MRI Segmentation for Lesion Detection using Clustering with Grammatical Swarm Based-Adaptable Particle Swarm Optimizer. Journal of Network and Innovative Computing, MIR Labs, USA 3,138-145.
5. Si,T,De.A.,Bhattacharjee,A.K.,July2015.Grammatical Swarm based Segmentation Methodology for Lesion Segmentation in Brain MRI. International Journal of Computer Applications 121(4), 1-8.
6. Si, T., De, A., Bhattacharjee, A.K.,2015.Brain MRI segmentation for tumor detection via entropy maximization using Grammatical Swarm. International Journal of Wavelets, Multi resolution and information processing 13(5),1550039(32pages).
7. Si, T., De, A., Bhattacharjee, A.K., Feb.2016. Artificial Neural Network based Lesion Segmentation of Brain MRI. Communications on Applied Electronics 4(5),1-5.

Department of Humanities and Social Sciences

1. Agasti, S., Sinha, M. and Sengupta, P. P. (2015), "Demographic Nature of the Consumers in Brand Selection and Consumers Protection under Globalized Retail Marketing: A Case Study in Kolkata", International Journal of Scientific and Research Publications, 5, 11, 155-161.
2. Agasti, S., Sinha, M., Sengupta, P. P., 2015. Consumer Protection, Awareness and Welfare in India under Globalized Marketing - A Case Study in Kolkata. International Journal of Advanced Research. 3. 10. 1609-1614.
3. Biswas, P., Banerjee, J., 2015. Influence of family, culture and society on Tagore's literature-Understanding of Modernism and Traditionalism. International Journal of Advancement in Education and Social Sciences, 3-1, 16-22.
4. Biswas, U., Banerjee, J., 2015. Indian folk backdrop as the constitution of Mulk Raj Anand's novels. Asian Academic Research Journal of Social Science and Humanities, 2- 6, 269-274.
5. Biswas, U., Banerjee, J., 2015. Unravelling unrevealed realities under the shadow of well constructed social system: a critical study of Joseph Heller's Catch-22. Researchers World – Journal of Arts, Science & Commerce, VI-3(2), 63-68.
6. Patra, Indrajit, Rai, Shri Krishan Rai, 2015. Exploring The Motives Behind

Obsession with Death in Victorian Literature. Research Journal of

English Language and Literature, 3-4,300-311.

7. Patra, Indrajit, Rai, Shri Krishan Rai, 2015. A Short Journey Into The Minds of Some Legendary Shakespearean Characters. International Journal of English Language, Literature and Translation Studies, 2. 4, 267-276.
8. Rai, Shri Krishan, Karmakar, Goutam, 2015. A Study of Mythological and Philosophical Outlook of Keki N.Daruwalla. American Research Journal of Humanities and Social Sciences 1.3.39-45.
9. Rai, Shri Krishan, Karmakar, Goutam, 2015. Growth

of a Poetic Mind: A Glimpse into the Poetic Journey of R.Parthasarathy. International Journal of English Research 1.1, 22-25.
10. Rai, Shri Krishan, Karmakar, Goutam, 2015. Languishment through Expression: A Study of the Unfulfilled Desires and Eternal Cravings in the Poetry of Kamala Das. The Expression: An International Multi-Disciplinary e-journal. 1.5, 11-21.
11. Rai, Shri Krishan, Sengupta, Tuhin, 2015. The Elements of Mythology and Folk-Tales in the poems of Ted Hughes with Special Focus on The Crow: From the Life and the Songs of the Crow. The Criterion. 6-6, 278-291.
12. Rai, Shri Krishan, Sengupta, Tuhin, 2015. Cultural Hybridity, Anguish and Journey Towards a New Identity : A Post-colonial Reading of Derek Walcott`s Poems. International Journal of Humanities and Social Sciences. 5. 2, 59-66.
13. Roy, A., Banerjee, J., 2015. The Subverting Other: Dalit Voice in the Brahminical Universe of U.R.Anantha Murthy's Samskara. Anukriti, 5-3,105-110.
14. Sengupta, D., Banerjee, J., 2016. Deconstructing Homophobia: A Critique on the Peripheral Sexuality as Represented in Mahesh Dattani's On a Muggy Night in Mumbai. International Journal of Pure and Applied Researches, 1- 1, 87-90.

Department of Management Studies

1. Amlan G, Shrutikeerti K (2016) Factors Influencing the Participation in Defined Contribution Pension Scheme by the Urban Unorganized Sector in India. Journal of Global Economics, 4: 176. doi:10.4172/2375-4389.1000176
2. Banerjee, A.. De, A. 2015. Does Capital Structure Decisions determine Dividend Payout Policy in Indian Iron and Steel Industry? An Empirical Study. Abhigyan, Journal of FORE School of Management, New Delhi, Vol.XXXIII, July-September 2015, p.p.65-78
3. De, A., Banerjee, A. 2015. An Empirical investigation into the relationship between profitability and capital structure decision: Evidence from Indian Textile Industry. NIFM Journal of Public Financial Management, National Institute of Financial Management, Vol. VII, Issue 1, p.p. 63-74
4. De, A., Banerjee, A. 2015. Capital structure decisions and its impact on Dividend payout ratio during the Pre and Post period of recession in Indian Scenario: An Empirical study. Vision–The Journal of Business Perspective, MDI, Gurgaon, Sage Publication, Vol. 19, No.4, p.p.366-377
5. De, A., Banerjee, A. 2015. Financial Leverage and its determinants: Evidence from Indian Cement Industry. Physica A: Drishtikon, Journal of Symbiosis Centre for Management and HumanResource Development, Vol.7, Issue1, p.p. 1-21
6. Dutta Aloy , Dutta Avijan , Sengupta S ,A Case Study of Pepsico Contract Farming For Potatoes. IOSR Journal of Business and Management (IOSR-JBM) e-ISSN: 2278-487X, p-ISSN: 2319-7668 PP 75-85
7. Ghosh A. (2016), Assessing the role of POSB to cater financial inclusion and delivering rural credit in India, Anweshan – Journal of Department of Commerce, NBU, Vol 4. No. 1
8. Guha, B., Bandyopadhyay, G., Gold Price forecasting using ARIMA Model, JoAMS, Vol4. No2, March 2016, 117-121
9. Guha, B., Dutta, A., Bandyopadhyay, G., Measurement of Risk Vs Return of Indian Sectoral Indices JoAMS, Vol4. No2, March 2016, 106-111
10. Majumdar Malini Nandi Dutta Avijan , Sengupta Kalyan Occupational Stress among custodians of civic law: An exploratory study. Survey Vo l 55 Nos 1 and 2, Jan- June 2015

Department of Mathematics

1. Dey, L.K., Mandal, S., 2015. Best proximity point of F-contraction in complete metric space. Bulletin of the Allahabad Mathematical Society 30(2), 173-189.
2. Ghosh, D., Pal, A., 2015. The Effect of Globalization on Silk Weaver using Fuzzy Models. Int. J. of Computer Science and Electronics Engineering 3(3), 200-204.
3. De, N., Nayeem, S. M. A., Pal, A., 2015. The Irregularity of Some Composite Graphs. Int. Journal of Applied and Computational Mathematics. DOI 10.1007/s40819-015-0069-z.
4. Ghosh, D., Pal, A., 2015. Analysis of Facultyteaching based on student feedback using Fuzzy relation equation. Int. J. of applications of Fuzzy sets and artificial Intelligence 5, 91-109.
5. Mandal, S., Pal, A., 2015. New Approach of Text Mining in R. GESJ: Computer Science and Telecommunications 2015. 4(45), 30-36.
6. Ghosh, D., Pal, A., 2015. Using Fuzzy Cognitive Map and Induced Fuzzy Cognitive Map to Analyze

Real World Problems. Annals of Pure and Applied Mathematics 10(2), 153-163.
7. Ghosh, P., Pal, A., 2015. Some New Fibonacci Divisor Cordial graphs. AMO- Advanced Modelling and Optimization 17(2), 221-231.
8. Bandyopadhyay, A. K., Pal, A., Das, P. K., 2015. Distribution Network of Indian Lighting Industry –A Comparative Sectoral Analysis. International Journal in Management and Social Science 3(9), 43-61.
9. Ghosh, D., Pal, A., 2016. Using Induced Fuzzy Congnitive Map and Fuzzy Relation Equation to analyze the impact of social Networking on students life. International Journal of applications of Fuzzy sets and artificial Intelligence 6, 33-54.
10. De, N., Nayeem, S. M. A., Pal, A., 2015. Modified eccentric connectivity Index and Polynomial of Corona product of Graphs. International Journal of computer Applications 132(9), 1-5.
11. De, N., Nayeem, S. M. A., Pal, A., 2015. Total Eccentricity Index of Some Composite Graphs. Malaya Journal of Matematik 3(4), 523-529.
12. Sarkar, A.,Pal, A., 2016. Use of Matched Filter to reduce the noise in Radar Pulse Signal. Int. J. of Recent trends in Engineering and Research 2(2), 282-286.
13. Mitra Thakur, G. S., Bhattacharyya, R., Sarkar (Mondal), S., 2016. Artificial Neural Network Based Model for Forecasting of Inflation in India. Fuzzy Information and Engineering 8, 87-100.
14. Kaur D., Mukherjee S., Basu K., 2015. Solving a multi objective and multi-index real life fuzzy transportation problem using modified fuzzy programming technique. Advances in Fuzzy Mathematics 10 (2), 123-141.
15. Mandal K., Basu K., 2015. Hypercomplexneutrosophic similarity measure & its application in multicriteria decision making problem. Neutrosophic sets and systems, University Of New Mexico 09, 6-12.
16. Kar. S., Basu K., Mukherjee S., 2015. Application of neutrosophic set theory in generalized assignment problem. Neutrosophic sets and systems, University Of New Mexico 9, 75-79.
17. Tewary J. ,Mahanti G.K. , Basu K., 2015. Comparative Study of Evolutionary Algorithms for the Optimum Design Of Thin Broadband Multilayer Microwave Absorber for Oblique Incidence. International Journal Of Microwave Engineering (JMICRO) 1(1), 27-45.
18. Kar, S., Basu, K., Mukherjee, S. 2015. Solution of Multi-criteria assignment Problem using Neutrosophic Set Theory, Neutrosophic sets and systems, University Of New Mexico 10, 31-38.
19. Kaur, D., Basu, K., 2015. Application of Extended Fuzzy Programming Technique to a real life Transportation Problem in Neutrosophic environment. Neutrosophic sets and systems, University Of New Mexico 10, 74-87.
20. Hazari, S., Maity, K., Dey, J. K., Kar S., 2015. Advertisement policy and reliability dependent imperfect production inventory control problem in bi-fuzzy environment, International Journal of Operations Research, 22 (3), 342 – 325.

Department of Mechanical Engineering

1. Nandi D, Basak I, 2014, Effect of Cell Parameters on Discharge Voltage in Electric Discharge Cell, IPASJ Intl Jl of Mech Engg (IIJME), ISSN:2321-6441, V 2, n 9, pp 32-40.

Department of Metallurgical and Materials Engineering

1. Ganguly, A, 2015. Engulfment Mechanism in Continuous Casting in the context of 416 SS, IIM Metal New, June 2015
2. Ganguly, A, 2015. Small Measure but High Impact, JPC Bulletin, Dec 2015
3. Ghosh D, Mallik M, Mandal N, Dutta S, Roy H, Lohar A.K. 2015. Effect of experimental variables of abrasive wear on 3D surface roughness and wear rate of Al-4.5% Cu alloy" Journal of The Institution of Engineers (India): Series D, (DOI 10.1007/s40033-016-0110-3)
4. Singh R.K, Mandal D and Sahoo K.L, 2015. Comparison of Zn loss in Traditional Brass Melting Furnace Used by Brassware Artisans and in Energy Efficient Brass Melting Furnace, Indian Foundry Journal, 61 (7) 33-39

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

Department of Biotechnology

1. Mukherjee, A., Mitra R., Dutta D., 2016. Biological Decolorization of Malachite Green by a Carotenoid Producing Bacterium, International Journal of Biotechnology and Biomedical Sciences 2 (1), 90-92. March 8, 2016.
2. Sonar, A.K., Mitra R., Dutta D., 2016. Effect of Oxidative Stress on Kocuria marina DAGII during β-cryptoxanthin Biosynthesis, International Journal of Biotechnology and Biomedical Sciences 2 (1), 93-95. March 8, 2016.

Department of Computer Science and Engineering

1. Bulbul, S.M.A., Pradhan, M., Roy, P.K., Pal, T., 2016. Opposition-based krill herd algorithm applied to economic load dispatch problem. Ain Shams Engineering Journal.
2. Pradhan, M., Roy, P.K., Pal, T., 2016. Economic load dispatch using oppositional backtracking search algorithm: ELD using oppositional BSA. International Journal of Energy Optimization and Engineering (IJEOE).
3. Roy, P.K., Pradhan, M., Pal, T., 2015. Krill herd algorithm applied to short-term hydrothermal scheduling problem. Ain Shams Engineering Journal.

Department of Humanities and Social Sciences

1. Sengupta, D., Banerjee, J. Patriarchy Begins At Home': A Feminist Reading of the Domestic Surveillance and Socio-racial Jeopardizing of Women as Represented in Khaled Hossein's A Thousand Splendid Suns." Researchers World – Journal of Arts, Science & Commerce, VII- 2, April 05, 2016.
2. Sinha, M., Service Trade and Foreign Direct Investment: An Empirical Exercise for India, Indian Institute of the Management Kozhikode Society and Management Review.

Department of Management Studies

1. De, A., Banerjee, A. 2015. Impact of Capital Structure Decisions on Financial performance during Pre and Post period of Recession: Evidence from India. Management and Labour Studies, Journal of XLRI Jamshedpur, Sage Publication (Accepted for publication on 07/07/2015).
2. Pal, D., 2015. Organizational Citizenship Behaviour In Indian Organizations: A Sectoral Comparison. Journal of Psychometry. Vol. 29(1). (In Press) Aug 25, 2015.

Department of Metallurgical and Materials Engineering

1. Mondal M. K., Das P., Karmakar N., Banik N., 2015. Modelling of flow behaviour in a LD vessel by an impinging gas jet, Progress in Computational Fluid Dynamics, (Accepted, Manuscript id: PCFD-94583) December, 2015.

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

Department of Biotechnology

1. Chowdhury, S., Chaudhuri, S., Dutta, D. 18-19 September, 2015. Microwave assisted extraction of Mangiferin from Phyllanthus emblica (amla), 6th International Conference on Healthcare and Life Science Research (ICHLSR).
2. Das S., Bera S. Dutta, D. 17th April, 2016. Identification of a golden yellow biocolorant from Microbacterium pumilum NITD, Proceedings of 22nd IRF International Conference, Bengaluru, India.
3. Dasgupta Mandal, D., Behera, M., October 05-07, 2015. Genotoxicity evaluation and a primary risk assessment of organic and inorganic pollutants from industrial effluents, 6th World Congress on Biotechnology, 2015, New Delhi, India
4. Dasgupta Mandal, D., Priyadarshinee, R., Mandal, T., 17-19, December 2015. Bacterial delignification as biobleaching step in paper industry. Proceedings of Bioprocessing India 2015.Indian Institute of Technology, Chennai ,India.
5. Dutta, S., Bhunia, B., Dey, A. 20-22 January 2016. Studies on the effect of agitation and aeration for the Improved protease production by Bacillus licheniformis NCIM-2042, ICABET 2016.
6. Dutta, S., Bhunia, B., Dey, A. October 2-4, 2015. Studies on Kinetics and Strategies for enhanced production of Rapamycin using Streptomyces hygroscopicus MTCC 4003. Golden Jubilee International Conference on Recent advances in Chemical and Biochemical engineering, 2015.
7. Dutta, S., Bhunia, B., Sinha, A., Dey, A. 17-19, December 2015. Improved protease production by batch fermentation using Bacillus licheniformis NCIM-2042: Optimization of agitation and aeration regime. Bioprocessing India 2015.
8. Dutta, S., Dey, A. 20-22 January 2016. Approaches for the Improved Production of Rapamycin by Streptomyces hygroscopicus MTCC-4003 ICABET 2016.
9. Gawde, S., Priyadarshinee, R., Mandal, T., Dasgupta Mandal, D., March 19-20, 2016. Studies on mechanism of delignification with simultaneous decolourization of lignin mimicking dyes by Planococcus sp. TRC1, International Conference on "Renewable Energy-Extension & Outreach", 2016 , Department of Environmental Studies, Visva- Bharati, Santiniketan, India.
10. Ghosh, M., October 05-07, 2015. Analyzing Leishmania donovani gene ontology leading to novel drug targets, 6th World Congress on Biotechnology, 2015, New Delhi, India
11. Kazy, S. K., Sar, P., December 7-10 2015. Metagenomic insight in to the microbial ecosystems within petroleum refinery sludge and defining the scope for in situ bioremediation, 56th Annual Conference of Association of Microbiologists of India (AMI), Jawaharlal Nehru University, New Delhi.
12. Mitra R, Samanta, A.K., Chaudhuri, S., Dutta, D. January 20 – 22, 2016, Impact of Carbon Source on β-cryptoxanthin Production by Kocuria marina DAGII: A Classical Approach, International Conference on Advances in Bioprocess Engineering and Technology 2016 (ICABET 2016), HIT Kolkata, India.
13. Mukherjee, A., Mitra R., Dutta D. 13th March, 2016. Biological Decolorization of Malachite Green by a Carotenoid Producing Bacterium, International Conference on Innovative Research in Agriculture, Food Technology, Physical, Chemical Sciences, Ecological, Mathematical/Statistical Applications for Sustainable Development" (AFPCEM-2016), JNU, New Delhi.
14. Pal, S., Roy, A., Sarkar, P., Sar, P., Kazy, S. K., January 20-22, 2016. Diversity and metabolic characterization of indigenous culturable bacteria isolated from tank bottom sludge of Duliajan Oil Field, Assam, India, International Conference on Bioprocess Engineering and Technology (ICABET – 2016), Heritage Institute of Technology, Kolkata.
15. Ranajn, J., Dasgupta Mandal, D., March 19-20, 2016. Environmental risk assessment of disinfection-by-products in freshwater pools, International Conference on "Renewable Energy-Extension & Outreach", 2016, Department of Environmental Studies, Visva- Bharati, Santiniketan, India.

16. Roy, A., Sarkar, P., Bharadwaj, R., Pal, S., Sar, P. ,Kazy, S. K., 22-25 November, 2015. Next-generation sequencing revealed high diversity and in situ bioremediation potential of indigenous microbial communities within petroleum hydrocarbon contaminated sludge of oil refineries, 12th Annual Conference of Biotech Research Society of India (BRSI), New Horizon in Biotechnology-2015, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerela.
17. Samanta, A.K., Chaudhuri, S., Dutta, D. January 20 – 22, 2016, Antioxidant Efficacy of Carotenoid Extract from Bacterial Strain Kocuria marina DAGII, International Conference on Advances in Bioprocess Engineering and Technology 2016 (ICABET 2016), HIT Kolkata, India.
18. Sarkar, A, Kazy, S. K., Roy, A., Sar, P., 22-25 November, 2015. Molecular characterization and optimization of arsenite oxidation by Achromobacter sp. strain KAs3-5: potential for groundwater arsenic bioremediation, 12th Annual Conference of Biotech Research Society of India (BRSI), New Horizon in Biotechnology-2015, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerela.
19. Sarkar, J., Velappan, H., Roy, A., Kazy, S. K., Sar, P., 22-25 November, 2015. A microcosm based approach to estimate the efficiency of different bioremediation strategies on petroleum refinery sludge and assessment of effect of sludge on agricultural soil bacterial community, 12th Annual Conference of Biotech Research Society of India (BRSI), New Horizon in Biotechnology-2015, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerela.
20. Sonar, A.K., Mitra, R., Dutta, D., 13th March, 2016. Effect of Oxidative Stress on Kocuria marina DAGII during β-cryptoxanthin Biosynthesis, International Conference on Innovative Research in Agriculture, Food Technology, Physical, Chemical Sciences, Ecological, Mathematical/Statistical Applications for Sustainable Development" (AFPCEM-2016), JNU, New Delhi.

Department of Chemical Engineering

1. A. Kumar, A. Jash, Dasgupta, D., G. N. Halder, Mandal, T., Sarkar, J.P., 2016 Removal of catechol from aqueous solutions by adsorption using low cost activated carbon prepared from Eichhornia crassipes.
2. Bhattacharya, B., Singh, R. K., Jana, Ruj, B. B., Sadhukhan, A. K., Gupta, P., 2015, Pyrolysis of Tyre Waste and Characterization of By-products IconSWM-2015, 5th International Conference on Solid Waste Management, IISc Bengaluru
3. Jana, A., Singh, R. K., Bhattacharya, B., Ruj, B., Sadhukhan, A. K., Gupta, P., 2016, Energy Recovery and Waste Disposal of Medium Vehicle Tyre Waste through Pyrolysis RECYCLE-2016, International conference on waste management, IIT Guwahati
4. Mukherjee, A., Ruj, B., Singh, R K., Gupta, P., Sadhukhan, A. K., 2016, Plasma Pyrolysis: An Emerging Technology for Sustainable Disposal of Plastic Wastes and Energy Recovery, RECYCLE-2016, International conference on waste management, IIT Guwahati
5. Narayanan, C.M. and Das, S., 2015, Studies on Synthesis of Lactic Acid from Cheese Whey and Molasses in Semifluidised Bed Biofilm Reactors , Proc. Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur, October 02 – 04.
6. Narayanan, C.M. Biswas, S., 2015, Three Phase Semifluidized Bed Bioreactors for Waste Water Treatment – A Review, Proc. Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur, October 02 – 04.
7. Narayanan, C.M., Pandey, A., 2015, Development of Software Packages for Computer Aided Design and Performance Analysis of Industrial Fractional Distillation Equipment , Proc. Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur, October 02 – 04,
8. Narayanan, C.M., 2016, Computer Aided Analysis of Biodiesel Synthesis Using Lipase – Immobilized Inverse Fluidized Nanosilica Particles, Proc. National Symposium on Multiphase Flow, Durgapur, India, February 22-24.
9. Narayanan, C.M., 2016, Green Technologies for Sustainable Development – A Few Successful Case Studies (Keynote Lecture), Proc. All India Seminar on Environmental Impact Assessment of Chemical and Allied Industries for Sustainable Development and Climatic Change, Calcutta, May 6 – 7.

10. Narayanan, C.M., Ajeej, A., Thanikal, J. V., 2015, Studies on the Feasibility of Co-Digestion of Sewage Sludge, Waste paper and Waste Grown Algae to enhance the Production of Biogas, Proc. Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur, October 02 – 04.
11. Narayanan, C.M., Das, S., 2015, Performance Characteristics of Inverse Fluidized Bed Bioreactors with Special Reference to Bioplastic Synthesis, Proc. ISHMT – ASTFE International Heat and Mass Transfer Conference, Trivandrum, December 17 – 20, 2015.
12. Narayanan, C.M., De, T., and Sikder, J., 2015, Design and Analysis of Immobilized Enzyme Bioreactors for Biodiesel Synthesis - A Review, Proc. Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur, October 02 – 04.
13. Narayanan, C.M., Pandey, A., 2015, Studies on Synthesis of Lactic Acid from Agricultural / Food Wastes in Down Flow Stationary Fixed Film (DSFF) Bioreactors, Proc. Chemical Engineering Congress – 2015 , Guwahati, December 27 – 30.
14. Singh, A., Bhunia, S., Sadhukhan, A. K., Gupta, P., 2015, CFD Modelling & simulation study Of Oxy-fuel Combustion of Coal Char Fines. CHEMCON-2015, IIT Guwahati.
15. Singh, R. K., Ruj, B., Mukherjee, A., Sadhukhan, A. K., Gupta, P., 2016, Pyrolysis of Municipal Plastic Waste: Time dependent Gas generation analysis at 500 0C, RECYCLE-2016, International conference on waste management, IIT Guwahati.
16. Talukdar, A., Kamila, B., Sadhukhan, A. K , Gupta, P. , 2015, 2-d modeling of pyrolysis of large biomass particle considering conduction, internal convection and shrinkage CHEMCON- 2015, IIT Guwahati.

Department of Chemistry

1. Sen, S., Dutta, S., Chakrabarty, J., Nandi, S., July 31 & August 1, 2015, Application of response surface methodology for modelling and optimization of adsorptive removal of chromium (vi) from simulated wastewater using dried cyanobacterial biomass, National symposium on recent advances in chemistry and industry, The Indian Chemical Society, Kolkata.*
2. Biswas, G., Prince, P., Dutta, S., Adhikari, K., Guha Thakurta S., Chakrabarty, J., November 22-25, 2015, Removal of Fluoride using Living and Dead Biomass of Leptolyngbya foveolarum and Assessment of Lipid Production from Living Cell, International conference on new horizons in biotechnology 2015 (NHBT 2015), Trivandrum, Kerala.*
3. Upendar, G., Dutta, S., Chakrabarty, J., Bhattacharyya, P., January 20-22, 2016, Removal of methylene blue dye using immobilized Bacillus subtilis in batch & column reactor, International Conference on Advances in Bioprocess Engineering and Technology (ICABET 2016), Heritage Institute of Technology, Kolkata.*
4. Banerjee, S., Chakrabarty, J., Pal, M., Paul, R.R., Chatterjee, J., March 13-17, 2016, Fourier Transform Infrared Spectroscopic Spectral Feature Subset Selection for Optimal Diagnosis of Oral Lesion, 251st ACS National Meeting in Division of Biochemical Technology for 'Emerging Technologies: Disease and Biomedical Applications' section, San Diego, California, USA.
5. Maji, R. C.; Bhandari, A.; Moi, S. C.; Maji, M.; Patra, A. K. December 03-05, 2015, Ligand Donor Type Dictates the CuII/I Mediated Thioether-S Oxidation: Insight to CuM Site of Hydroxylases, International Symposium on Modern Trends in Inorganic Chemistry, MTIC XVI, Jadavpur University, Kolkata.
6. Reddy, B. P.V., Moi, S.C. February 17-20, 2016, .In vitro model reactin of sulphur containing biorelevant ligands with Pt(II) complex: kinetics, mechanism, bioactivity and computational studies, Sixth International Conference on Metals in Genetics, Chemical Biology and Therapeutics, Indian Institute of Science, Bangalore.

* Repeated in other departments

Department of Civil Engineering

1. Bandyopadhyay, M. and and Banik, A.K., February 25-27, 2016. Nonlinear Dynamic Progressive Collapse of Semi-Rigid Jointed Steel Frames. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
2. Banerjee, A.K., Topdar, P. and Datta, A.K., December 14-16, 2015. Review of numerical modelling techniques for studying the dynamic response and dmage states of highway pavement. Int. Conf. on Innovations in Structural Engineering IC-ISE-2015 organised by Osmania University, Hyderabad.
3. Das, Vaibhab M. and Datta, A.K., Dec. 16-19, 2015 Dynamic behaviour of plate girder bridge due to

varying speed of train- A study by Finite element Method. Proceedings of 60th ISTAM, MNIT, Jaipur.

4. Dey, S., Vimmadi, S., Ghosh, V., Roy, S and Banik, A.K.,. February 25-27, 2016, Dynamic Responses of an FPSO with Mooring Cables Interacting with Different Bed Slopes. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
5. Dutta, S. and Das, D., February 25-27, 2016. System Identification of a Two-Degree Freedom System using Wavelet Transformation. International Conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur.
6. Dutta, S., Das, A. and Nanda, R.P., March 17-19, 2016. Seismic isolation by rubber sand mixtures for low cost housing International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016) organized by Jaipur National University Rajasthan..
7. Garia, S. Neethu, B. and Das, D., March 17-19, 2016. Effect of Dynamic Soil Structure Interaction on the Seismic Response of Bridges with Elastomeric Bearings. International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016), Jaipur National University Rajasthan.
8. Ghosh, V., Vimmadi, S., Dey, S., Roy, S. and Banik, A.K., February 25-27, 2016. Coupled Analysis and Parametric Study of a Spar Shaped Structure with Different Mooring Cable Configurations. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
9. Izhar, T., Roy, P., March 21-22, 2016. Application of Real Paste Concrete on Mix Design of Pumping Concrete as per Indian Standard Method, International Seminar on Emerging Building Materials and Construction Technologies, New Delhi, India, 111-119.
10. Kumar A. and Banik, A.K., February 25-27, 2016., Static and Dynamic Analysis of offshore jacket platform. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
11. Majumdar R.K. and Banik, A.K., February 25-27, 2016. Effect of Blast Induced Shock on Structures and Foundations: A Critical Review. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
12. Mohamed A.G., Bandyopadhyay, M. and and Banik, A.K., February 25-27, 2016, Progressive Collapse of Moment Resistance Steel building Subjected to Multi Hazard Loads: A Review Study. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
13. N.K. and Nanda, R.P., October 2015. Seismic vulnerability assessment of hospital buildings of India based on questionnaire survey and rapid visual screening: a case study, Int. Conf. on Geo-Engineering and Climate Change Technology for Sustainable Env. Management (GCCT-2015), MNIT Allahabad, India.
14. Neethu, B. and Das, D., February 25-27, 2016. Sliding Mode Control of Multi-Span Bridges. International Conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India
15. Neethu, B., Garia, S. and Das, D., March 17-19, 2016. Dynamic Soil Structure Interaction on the Seismic Response of Bridges with Semi-active Control System. International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016), Jaipur National University Rajasthan
16. Rajbanshi, S. and Das, D. ., March 17-19, 2016. Dynamic Behaviour of Fixed Offshore Jacket Platforms under Different Environmental Loads. International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016), Jaipur National University Rajasthan..
17. Sahani A K, Samanta A K, Singha Roy D K , Nov. 2-5, 2015. Sustainable concrete based on granular blast Furnace slag as fine aggregate: Thermo-mechanical Study. UKIERI Concrete Congress, Concrete Research Driving Profit and Sustainability-UKIERI 2015, Dr B R Ambedkar National Institute of Technology (NIT), Jalandhar, ISBN: 978-93-84869-82-3, 883-892.
18. Sarkar, G., Roy, P., February 25-27, 2016. Effect of seabed characteristics on natural frequency of free spanning offshore pipelines, International Conference on Advances on Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.
19. Vimmadi, S., Dey, S., Ghosh, V., Roy, S and Banik, A.K.,. February 25-27, 2016. Linear and Nonlinear Coupled Analysis of Moored Floating Structure: A State-of-The Art Review. International conference on Advances in Dynamics, Vibration and Control (ICADVC-2016), NIT Durgapur, India.

Department of Computer Applications

1. Ahmad, F., Sarkar, A., July 27-30, 2015. Scheduling of Composite Services in Multi-Cloud Environment, Int'l Conf. Grid & Cloud Computing and Applications GCA'15(2015), July, las Vegus, USA.
2. Banerjee, P., & Sarkar, A. (March 04-05, 2016). Quality Evaluation Framework for Component Based Software. Accepted in Proceedings of the 2016 International Conference on Information and Communication Technology for Competitive Strategies (ICTCS), ACM, Udaipur, India, (Article in Press) doi. http://dx.doi.org/10.1145/2905055.2905223, Udaipur, India.
3. Banerjee, P., Sarkar, A., & Debnath, N. C. (Dec 28-30, 2015). Modeling Component Interaction: Z - Notation Based Approach. International Conference on Computing, Management and Telecommunications (ComManTel). IEEE, 62-67, Da Nang, Vietnam.
4. Banerjee, S., Sarkar, A. February 10-12, 2016. Modeling NoSQL Databases: From Conceptual to Logical Level Design, 3rd International Conference on Applications and Innovations in Mobile Computing (AIMOC – 2016), IEEE, Kolkata, India.
5. Banerjee, S., Sarkar, A., Debnath, N. C. July 18-21, 2016.Ontology Driven Conceptualization of Context-dependent Data Streams and Streaming Databases, Accepted in 14th International Conference on Industrial Informatics (INDIN-2016), IEEE, France.
6. Banerjee, S., Shaw, R., Sarkar, A., Debnath, N. C. July 22-24, 2015. Towards Logical Level Design of Big Data, 13th International Conference on Industrial Informatics (INDIN-2015), IEEE, Cambridge, United Kingdom.
7. Banerjee, T., Alam, M. Y., Choudhury, P., 2016. An Auction based VCG Mechanism to Promote Collaboration in MANET. ICBIM.
8. Choudhury, A., Sharma, A., Bhattacharya, U., 2015. Overview on Location Management in PCS Network: A Survey. Springer proceedings of 3rd ICACNI 2015.
9. Dey, A. K., Phadnis, A., Roy, M., Singh, P. K., Choudhury, P., 2016.Exploiting Marketing Value from Obsession: A Demographic- Based Seasonal Product and Service Recommendation for Online Facebook User. ICBIM.
10. Jalan, S., Kumar, P., Das, S. December 21-24, 2015 Formalization Of Digital Forensic Theory By Using Buchi Automaton , Third International Conference on Image Information Processing (ICIIP -2015) , Solan, HP, India.
11. Khan, G., Sengupta, S., Sarkar, A. March 19th-20th ,2015 Modelling of Services and their Collaboration in Enterprise Cloud Bus (ECB) using UML 2.0 International Conference on Advances in Computer Engineering and Applications (ICACEA-15), IMS Engineering College, Ghaziabad, India
12. Khan, G., Sengupta, S., Sarkar, A., Debnath, C, N. Dec 28th – 30th, 2015 XML based Service Registration System for Enterprise Cloud Bus In proc. Of 3rd IEEE International Conference on Computing, Management and Communications DaNang (ComManTel 2015), Vietnam
13. Khan, G., Sengupta, S., Sarkar, A., Debnath, C, N. Jan 15th – 16th, 2016 Priority based Service Scheduling in Enterprise Cloud Bus Architecture In proc. Of 3rd IEEE International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering (C2E2 2016), SKFGI, Mankundu
14. Khan, G., Sengupta, S., Sarkar, A., Debnath, C, N. July 22nd -24th, 2015 Web Service Discovery in Enterprise Cloud Bus Framework: T Vector Based Model 13th IEEE International Conference on Industrial Informatics (INDIN 2015), Cambridge, UK
15. Mandal, A., K., Sarkar, A., Debnath, N., C., June 28-29, 2015 "Case Based Derivation of Business Rules" 2015 International Conference on Computer Science and Information Engineering, DEStceh Publications Inc. Bangkok, Thailand.
16. Paul, P. S., Ghosh, B. C., De, K., Saha, S., Nandi, S., Chakraborty, S. September 11, 2015 Demo: pSync - A Peer-to-peer Sync Tool for Challenged Networks, ACM MobiCom CHANTS, Paris, France.
17. Paul, P. S., Ghosh, B. C., De, K., Saha, S., Nandi, Saha, S., Bhattacharya, I., Chakraborty, S. January 5-9, 2016 On Design and Implementation of A Scalable And Reliable Sync System For Delay Tolerant Challenged Networks, COMSNETS, Bangalore, India.
18. Roy, S., Sharma, A., Bhattacharya, U., 2015. MoveFree: A ubiquitous system to provide women safety. Third International Symposium on Women in Computing and Informatics.
19. Saha, M., Sikdar, B. K. July 8-10, 2015 A Cellular Automata Based Fault Tolerant Approach in Designing Test Hardware for L1 Cache Module, ISVLSI , Montpellier, France.

20. Saha, M., Gaupta, N. K., Sikdar, B. K. June 26-29, 2015 A fault tolerant test hardware for L1 cache module in tile CMPs architecture, VDAT, Ahmedabad, India.
21. Sarkar, S., Das, S. December 21-24, 2015 Secure E-Governance: From Observation to Policy Formulation , Third International Conference on Image Information Processing (ICIIP -2015) , Solan, HP, India.
22. Tyagi A., Roy R., Changder S., 1-2 May,2015. High Capacity Image Steganography based on Pixel Value Differencng and Pixel Value Sum , Proc. 2nd International Conference on Advances in Computing and Communication Engineering [IEEE], 488-493, Dehradun, India.

Department of Computer Science and Engineering

1. Bhakta, D., Sarker, G., 2015. A method of learning based boosting in multiple classifier for facial expression identification. IEEE 2nd International Conference on Recent Trends in Information Systems (ReTIS'15), Kolkata, India, 319-324.
2. Bhakta, D., Sarker, G., 2015. A new learning based boosting in multiple classifier for colour facial expression identification. International conference ICCI'15, Ranchi, India.
3. Chakraborty, B., Singh, B.P., Chinnapureddy, M., Dalui, M., Sikdar, B.K., 2015. Design of coherence verification unit for heterogeneous CMPs. 19th International Symposium on VLSI Design and Test (VDAT '15), Ahmedabad, India.
4. Chandrakar, K., Roy, S. 2015. Effect increasing voltage of levels on power saving obtained by multiple voltage design. 5th IEEE International Advanced Computing Conference (IACC'15), Bangalore, India.
5. Choudhury, S., Guha Thakurta, P. K., 2016. An Approach towards Energy Efficient Channel Reduction in Cellular Networks. First International Conference on Intelligent Computing and Communication (ICIC2-2016), Kalyani, India.
6. Das, A., Kumar, R.K., Kisku, D.R., 2016. Heterogeneous face detection. International Conference on Internet of Things and Cloud Computing (ICC'16), Cambridge, U.K., ACM ICPS.
7. Das, A., Kumar, R.K., Kisku, D.R., Sanyal, G., 2016. Attention identification via relative saliency of localized crowd faces. The 10th International Conference on Informatics and Systems (INFOS'16), Cairo, Egypt, ACM ICPS.
8. De, T., 2015. Traffic grooming based on light-trail in wavelength routed optical network. International Conference on Computer Science and Information Systems (ICCSIS'15), Thailand, 1-6.
9. Ganguly, P., Chandrakar, K., Roy, S. 2015. SAT based approach for power on inrush current minimization with power gating. IEEE International conference on Electronics, Computing and Communication Technologies (CONECCT'15), Bangalore, India.
10. Kisku, D.R., Gupta, P., Sing, J.K., 2015. FRIT characterized hierarchical kernel memory arrangement for multiband palmprint recognition. In Proc. of Optics and Photonics for Counterterrorism, Crime Fighting, and Defense XI/Optical Materials and Biomaterials in Defense Systems Technology XII, SPIE Security+Defense, Toulouse, France, SPIE Vol. 9652, pp. 96520P1 - 96520P12.
11. Kisku, D.R., Tistarelli, M., Gupta, P., Sing, J.K., 2015. "SIFT fusion of kernel eigenfaces for face recognition. In Proc. of Optics and Photonics for Counterterrorism, Crime Fighting, and Defense XI/Optical Materials and Biomaterials in Defense Systems Technology XII, SPIE Security+Defence, Toulouse, France, SPIE Vol. 9652, pp. 96520O1 - 96520O8.
12. Kumar, R.K., Garain, J., Sanyal, G., Kisku, D.R., 2015. A novel approach to enlighten the effect of neighbor faces during attending a face in the crowd. IEEE Region 10 Conference (TENCON'15), Macau, 1-4.
13. Kumar, R.K., Garain, J., Sanyal, G., Kisku, D.R., 2015. Analysis of attention identification and recognition of faces through segmentation and relative visual saliency. 11th International Multi Conference on Information Processing (IMCIP '15), Procedia-Computer Science, Bangalore, India, Elsevier, 54, 756-763.
14. Kumar, R.K., Garain, J., Sanyal, G., Kisku, D.R., 2015. Novel methodology for guiding attention through relative visual saliency of faces (RVS). IEEE International Conference on Control, Automation and Robotics (ICCAR '15), Singapore, 228-232.
15. Kundu S., Sarker G., 2016. A person identification system with biometrics using modified RBFN based multiple classifier. International Conference on Control, Instrumentation, Energy and Communication (CIEC), Kolkata, India, 125-129.
16. Kundu, S., Sarker, G., 2015. A programming based boosting in super classifier for fingerprint

recognition. International conference ICCI'15, Ranchi, India.
17. Kundu, S., Sarker, G., 2015. A super classifier with programming based boosting using biometrics for person authentication. International Conference ICCI'15, Ranchi, India.
18. Mukherjee, R., Tripathi, S., Sen., S, Sen, B., 2016. Characterization and analysis of single electron fault of QCA primitives. International Conference on Microelectronics, Computing and Communication (MicroCom 2016), Durgapur, India.
19. Mukherjee, S., Roy, S. 2015. Multi-terminal net routing for island-style FPGA's using nearly-2-SAT computation. 19th IEEE International Symposium on VLSI Design and Test (VDAT'15), Ahmedabad, India.
20. Mukherjee, S., Singh, B.P., Chinnapureddy, M., Koley, C., Dalui, M., 2015. CA based design of fault detection unit for hierarchical directories in scalable CMPs. International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT '15), Ananthapuramu, Andhra Pradesh, India.
21. Naik, D., Maity, S., De, T., 2016. Traffic grooming in hybrid optical-wireless meshnetworks using light trail approach. 3rd IEEE International Conference on Business and Information Management (ICBIM'16), Durgapur, India.
22. Naik, D., Maity, S., De, T., 2016. Traffic grooming in hybrid optical-wireless mesh networks using knapsack based light trail approach. 6th IEEE international Advanced Computing Conference (IACC'16), Bhimavaram, Andra Pradesh, India.
23. Naik, D., Maity, S., De, T., 2015. Traffic grooming in hybrid Optical-WiMAX mesh networks. 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA'15), Springer Advances in Intelligent Systems and Computing 404, Durgapur, India, 467-477.
24. Paul, P.S., Ghosh, B.C., De, K., Saha, S., Nandi, S., Chakraborty, S., 2015. Demo: pSync - A Peer-to-peer Sync Tool for Challenged Networks, ACM MobiCom CHANTS, Paris, France.
25. Paul, P.S., Ghosh, B.C., De, K., Saha, S., Nandi, S., Saha, S., Bhattacharya, I., Chakraborty, S., 2016. On design and implementation of a scalable and reliable sync system for delay tolerant challenged networks, COMSNETS, Bangalore, India.
26. Pukhrambam, P., Bhttacharjee, S., Das, H.S., 2016. A multi-level weight based routing algorithm for prolonging network lifetime in cluster based sensor networks. International Conference on Signal, Networks, Computing and Systems (ICSNCS'16), Jawaharlal Nehru University, New Delhi, India.
27. Rudra, A., Guha Thakurta, P. K., 2015. A New Neighborhood Connectivity based Clustering Approach for Energy Reduction in Mobile Networks. Michael Faraday IET International Summit (MFIIS-2015), Kolkata, India.
28. Sarker, G., 2016. A weight learning technique for cursive handwritten text categorization with fuzzy confusion matrix. International Conference on Control, Instrumentation, Energy and Communication (CIEC), Kolkata, India, 188-192.
29. Sarker, G., Besra, M., Dhua, S., 2015. A Malsburg learning BP network combination for handwritten alpha numeral recognition. International Conference on Advances in Computer Engineering and Applications (ICACEA'15).
30. Sarker, G., Besra, M., Dhua, S., 2015. A programming based handwritten text identification. International Conference on Advances in Computer Engineering and Applications (ICACEA'15).
31. Sarker, G., Dhua, S., Besra, M., 2015. A learning based handwritten text categorization. International Conference on Advances in Computer Engineering and Applications (ICACEA'15).
32. Sarker, G., Dhua, S., Besra, M., 2015. An optimal clustering for fuzzy categorization of cursive handwritten text with weight learning in textual attributes. 2nd International Conference on Recent Trends in Information Systems (ReTIS'15), Kolkata, India, 6-11.
33. Sen, B., Sahu, Y., Mukherjee, R., Nath, R., Sikdar, B., 2016. Towards designing reliable universal QCA architecture in the presence of cell deposition defect. 29th International conference of VLSI design, Kolkata, India.
34. Singh, K.J., De, T., 2015. A novel approach of detection and mitigation of DDOS attack. International Conference on Computer Science, Data Mining and Mechanical Engineering (ICCDMME'2015), Thailand, 61-66.
35. Singh, K.J., De, T., 2015. An approach of DDOS attack detection using classifiers. International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA'15), Springer, Bangalore, India, 1, 429-437.

Department of Electrical Engineereing:

1. Pal, P.S. , Kar, R., Mandal, D., Ghoshal, S. P., September 4-5, 2015, System Identification of Linear Unstable Plants Using Craziness Based Particle Swarm Optimization Algorithm, IEEE NGCT, Dehradun.
2. Das, S., Ram G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S. P., , Dec. 8-10, 2015, Optimization of Antenna Arrays for SLL Reduction Towards Pareto Objectivity Using GA Variants, IEEE SSCI, Cape Town, South Africa.
3. Maji, K. B.,Ghosh, A., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015, An Evolutionary Algorithm Based Approach for Optimal Design of Low Power CMOS Two-Stage Comparator, IEEE TICST , Thailand.
4. Maji, K. B.,Choudhury, S., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015, An Evolutionary Algorithm Based Approach for VLSI Floor-planning, IEEE TICST , Thailand.
5. Maji, K. B., SoumikaSree, U., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015, Butterworth Filter Design using Seeker Optimization Algorithm, IEEE TICST, Thailand.
6. Maji, K. B.,Jaiswal, H., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015, Opposition Harmony Search Algorithm based Optimal Sizing of CMOS Analog Amplifier Circuit, IEEE TICST, Thailand.
7. Pal, P. S., Banerjee, S., Kar, R., Mandal, D., November 4-6, 2015, Parametric Identification of Box-Jenkins Structured Closed-loop Hammerstein Systems using Gravitational Search Algorithm, IEEE TICST, Thailand.
8. Ram, G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S. P., Banerjee, S., 2015, Sidelobe and Beamwidth Optimization of Linear Antenna Arrays with Symmetric Relocation Boundary Condition of PSO,IEEE WIECON-ECE.
9. Das, R., Kumar, A., Kumar, S., Prasad, Kar, R., Mandal, D., Ghoshal, S.P., March 3-5,2016, Optimal Design of Full Adder Circuit using Particle Swarm Optimization Algorithm P. K., IEEE ICEEOT, Chennai, India.
10. Kolakaluriy, S., Naguralz, S. S., Kar, R., Ghoshal, S.P., Mandal, D. , March 3-5,2016, Optimization of Low Noise Amplifier using Particle Swarm Optimization, IEEE ICEEOT, Chennai, India.
11. Banerjee, S., Dutta, P., Ghosh, A/, September 12-13, 2015, Gravitational Search Algorithm based Optimal Type-II Controller for DC-DC Boost Converter, Michael Faraday IET International Summit, Kolkata, India.
12. Banerjee, S., Guha, D., Roy, P., September 12-13, 2015,Blended biogeography based optimization based LFC controller applied to multi-units multi-sources interconnected power system, Michael Faraday IET International Summit, Kolkata, India.
13. Banerjee, S., Bagchi, S., Bhaduri, R., Das, P., August 10-13,2015 Analysis of Power Transfer Capability of a Long Transmission Line using FACTS Devices, 4th International Conference on Advances in Computing, Communications and Informatics, Kochi, Kerala
14. Banerjee, S, Ghosh, A., Sarkar, S., December 17-20, 2015,Design and Implementation of Type-III Controller in Tri State Boost Converter, Proc. In INDICON 2015, New Delhi.
15. Banerjee, S., Guha, D., Roy, P., Nov 16-18, 2015, Application of Krill Herd Algorithm for Optimum Design of Load Frequency Controller for Multi-Area Power System Network with Generation Rate Constraint, 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015), Advances in Intelligent Systems and Computing Springer, NIT-Durgapur.
16. Banerjee, S., Guha, D., Roy, P., Jan 15-16, 2016, Differential Biogeography-Based Optimization applied to Load Frequency Control Problem, 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering (C2E2-2016), SKFGI, Mankundu, Hooghly.
17. Banerjee, S., Chakrabarti, S., Chakraborty, C., Giri, S.K., Mukherjee, S., Nov 9-12, 2015, A Double Signal PWM Scheme for Neutral Point Voltage Balancing in Three Level NPC Converters, 41st Annual Conference of the IEEE Industrial Electronics Society (IECON- 2015), Yokohama-city, Kanagawa, Japan.
18. Banerjee, S.,Sarkar, M.K., Nov 9-12, 2015, DSP Based Implementation of Piecewise Linear Control Scheme for wide air-gap control of an Electromagnetic Levitation System, 41st Annual Conference of the IEEE Industrial Electronics Society (IECON- 2015), Yokohama-city, Kanagawa, Japan.
19. Banerjee, S., Guha, D., Majumdar, K., Jan 15-16, 2016, Available Transfer Capacity Evaluation through BBO and GWO Algorithms, Proc. In 3rd International Conference on Foundations

And Frontiers In Computer, Communication And Electrical Engineering, C2E2-2016.

20. Banerjee, S., Guha, D., Majumdar, K., Jan 23-25, 2016, Available Transfer Capacity Evaluation through Evolutionary Algorithms, Proc. In International Conference on Microelectronics, Communication & Computing, MicroCom 2016.
21. Kumar, N., Saha T.K., Dey, J., and Barman J. C., March, 2016, Modelling, Control, and Performance Study ofCascaded Inverter Based Grid Connected PV System, Proceedings of IEEE International Renewable Energy Congress (IREC)..
22. Das A.K., Halder S., Jan 23-25, 2016,Pharmacodynamic Model of Neuroendocrine Controlled Blood Pressure, Proc. In International Conference on Microelectronics, Communication & Computing, MicroCom 2016.

Department of Electronics and Communication Engineering

1. Acharjee, J., Mandal, K., Mandal, S. K., Sarkar, P. P. January 23 - 25, 2016 Mutual Coupling Reduction between Microstrip Patch Antennas by Using a String of H-Shaped DGS, IEEE International Conference MicroCom 2016, Dept. of ECE, NIT Durgapur.
2. Acharjee, J., Mandal, K., Mandal, S. K., Sarkar, P. P. January 23 - 25, 2016 Rejection and Control of Higher Harmonics in a Microstrip Patch Antenna by Using Defected Ground Structure, IEEE International Conference MicroCom 2016, Dept. of ECE, NIT Durgapur.
3. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R., 15th-16th January, 2016. Application of Improved Particle Swarm Optimization technique for thinning of Elliptical Array antenna.Proc.3rd International Conference C2E2, CRC Press, Mankundu, West Bengal, India.*
4. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R. April 6-8, 2016 Wavelet Mutation Based Novel Particle Swarm Optimization Technique for Comparison of the Performance of single ring planar Antenna Arrays IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
5. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R. April 6-8, 2016 Optimal design of concentric elliptical array antenna for maximum side-lobe level reduction using particle swarm optimization with aging leader and challengers IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
6. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R. January 15-16, 2016 Application of Improved Particle Swarm Optimization technique for thinning of Elliptical Array antenna Proc.3rd International Conference C2E2, CRC Press Mankundu, West Bengal, India.*
7. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R. April 6-8, 2016 Wavelet Mutation Based Novel Particle Swarm Optimization Technique for Comparison of the Performance of single ring planar Antenna Arrays IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
8. Bera, R., Mandal, D., Ghoshal, S. P., Kar, R. April 6-8, 2016 Optimal design of concentric elliptical array antenna for maximum side-lobe level reduction using particle swarm optimization with aging leader and challengers IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
9. Bhowmick, A., Ghosh, S., Roy, S.D., Kundu, S. January 2016 Performance of Weighted Fusion based Spectrum Sensing under Double Threshold in Cognitive Radio Network IEEE MicroCom2016, NIT Durgapur.
10. Bhowmick, A., Yadav,K., Roy, S.D., Kundu, S. March 2016 Cooperative Spectrum Sensing based on Dynamic Clustering with Improved Energy Detector IEEE RAIT 2016, ISM Dhanbad.
11. Bhowmik, A., Roy, S.D., Kundu, S. December 2015 Performance of Secondary User with Combined RF and Non-RF based Energy-Harvesting in Cognitive Radio Network IEEE ANTS 2015, Kolkata.
12. Bhowmik, A., Roy, S.D., Kundu, S. February 27-March 1, 2015 A Hybrid Cooperative Spectrum Sensing for Cognitive Radio Networks in Presence of Fading IEEE National Conference on Communication (NCC) 2015 IIT Bombay.
13. Biswas, S., Ghosh, B., Chandra, A., Roy, S. D. December 19-20, 2015 PER reduction with relays for low energy short range 802.15.4 WPN. IEEE WIECON-ECE, Dhaka, Bangladesh.
14. Biswas, S., Ghosh, B., Chandra, A., Roy, S. D., July 13-17, 2015. Physical layer error rate performance for single & dual hop transmission in 802.15.4 WSN. ISeC, Bratislava, Slovakia.
15. Chakravorty, P., Mandal, D., 26-27 February 2015. Null Placement in Linear Antenna Arrays with a Novel Boundary Condition of PSO" IEEE, 2nd International Conference on Electronics and Communication systems, Coimbatore, India.

16. Chandra, A., Kukolev, P., Mikulasek, T., Prokes, A. September 16-18, 2015. Frequency-domain in-vehicle channel modelling in mmW band. IEEE RTSI, 106-110, Turin, Italy.
17. Chandra, A., Kukolev, P., Mikulasek, T., Prokes, A. July 16-20, 2015. Autoregressive model of channel transfer function for UWB link inside a passenger car. CSCC, 238-241, Zakynthos, Greece.
18. Das, A., Bag, B., Chandra, A. October 16-17, 2015. Performance analysis of fixed gain AF relay assisted mixed RF-FSO links. IEEE Optronix, Vancouver, Canada.
19. Das, M, Pal, M., Biswas, P., Ghatak, R. 2015 Electromagnetic Analysis of Concentric Split Ring Resonators in Conjunction to Microstrip Lines International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.102-105.
20. Das, O., Giri, S., Pal, M., Ghatak, R. 2015 Asymmetric Stepped Impedance Resonator Based Dual-Band Bandpass Filter International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.109-110, 2015.
21. Das, R., Kumar, A., Kumar, S., Prasad, P. K., Kar, R., Mandal, D., Ghoshal, S. P., 3-5th March ,2016. Optimal Design of Full Adder Circuit using Particle Swarm Optimization Algorithm. IEEE ICEEOT, Chennai, India, 2016.*
22. Das, R., Kumar, A., S. Kumar, P. K. Prasad, Kar, R., Mandal, D., Ghoshal, S. P. March 3-5, 2016 Optimal Design of Full Adder Circuit using Particle Swarm Optimization Algorithm IEEE ICEEOT Chennai, India.*
23. Das, S., Ram, G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S. P., Dec. 8-10, 2015.Optimization of Antenna Arrays for SLL Reduction Towards Pareto Objectivity Using GA Variants. IEEE SSCI 2015, 1164 - 1169 Cape Town, South Africa.*
24. Das, S., Ram, G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S. P. December 8-10, 2015 Optimization of Antenna Arrays for SLL Reduction Towards Pareto Objectivity Using GA Variants IEEE SSCI 2015, pp. 1164 - 1169 Cape Town, South Africa.*
25. Das A., Sinhamahapatra, P., Pal, M., Sarkar, P., Ghatak ,R. 2015 Compact LPF using Spiral and Fractal Shaped Defected Ground Structures with Wide Stop Band International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.106-108.
26. Das A. K., Gupta, R. K., Pal, M., Ghatak, R. 2015 Resonance Characteristics of Asymmetric Fractal Shaped Dipole Antennas, International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.91-94.
27. Dey, S., Tamang, S., Sarkar,P., Pal, M., Ghatak, R. Jan 2-3, 2015 An ultra-wideband bandpass filter using multi stub resonator with notch band functionality Signal Processing And Communication Engineering Systems (SPACES), pp.314-317,. Guntur, Andhra Pradesh, India.
28. Ghosh, B., Biswas, S., Chandra, A., Mal, A. K., July 13-17, 2015. Energy efficiency analysis of cooperative and non-cooperative communication scheme in α−μ fading channel. ISeC, Bratislava, Slovakia.
29. Gorai, A., Chatterjee, P., Pal ,M., Ghatak, R. February 19-20, 2016 A Compact Integrated UWB and Bluetooth Dongle Antenna using Quasi-Self-Complementary Structure, Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.144-147, ISBN No. 978-93-85775-03-1.
30. Gorai, A., Pal, M., Ghatak, R. 2015 A Compact Semicircular Dongle Sized Antenna for UWB Communication International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.99-101.
31. Gorai,A., Roy, P., Pal, M., Ghatak, R. January 24-25, 2015 A semicircular disk monopole antenna with dual band-notch reconfigurable characteristics Electrical, Electronics, Signals, Communication and Optimization (EESCO), pp.1-4, Visakhapatnam , Andhra Pradesh, India.
32. Goswami, D., Biswas, S., Roy, S. D., Chandra, A., May 23-24, 2015. Physical layer error rate performance of 802.15.4 networks. RSC, Guwahati.
33. Gupta,A., Maheshwari, V.,Sharma, S., Kar, R. April 2015 Crosstalk Noise and Delay Analysis for High Speed On-Chip Global RLC VLSI Interconnects with Mutual Inductance using 90nm Process Technology IEEE ICCCA-2015 pp. 1215 – 1219, Noida, India.
34. Jash, S. S., Pal, M. Ghatak, R. February 19-20, 2016 Reflection Properties of Sub-wavelength Reactive Impedance Surface Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.159-161, ISBN No. 978-93-85775-03-1.
35. K Maji, K. B., Jaiswal, H., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015. Opposition Harmony Search Algorithm based Optimal Sizing of CMOS Analog Amplifier Circuit. IEEE TICST 2015, Thailand.*

36. Kolakaluriy, S., Naguralz, S. S., Kar, R., Ghoshal, S.P., Mandal, D., March 3-5, 2016. Optimization of Low Noise Amplifier using Particle Swarm Optimization. IEEE ICEEOT, Chennai, India.*
37. Kolakaluriy, S., Naguralz, S. S., Kar, R., Mandal, D., Ghoshal, S. P., March 3-5, 2016. Optimization of Low Noise Amplifier using Particle Swarm Optimization. IEEE ICEEOT Chennai, India.*
38. Kukolev, P., Chandra, A., Mikulasek, T., Prokes, A. October 5-7, 2015. Out of vehicle channel sounding in 5.8 GHz band. IEEE Nets4Cars, 341–344, Munich, Germany.
39. Kukolev, P., Chandra, A., Mikulasek, T., Prokes, A. July 16-20, 2015. BER performance of 802.11p in SISO, MISO, and MIMO fading channels. CSCC, 89-93, Zakynthos, Greece.
40. Kumar, A., Kumar, S., Prasad, P. K., Das, R., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Area-Delay-Power Efficient PSO Based Full Adder in Different Technologies IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
41. Kumar, A., Kumar, S., Prasad, P. K., Das, R., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Area-Delay-Power Efficient PSO Based Full Adder in Different Technologies IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
42. Kumari, P., Pal, M., Sarkar P. Ghatak, R., February 19-20, 2016 Temporal Analysis of UWB Band Pass Filters Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.148-150, ISBN No. 978-93-85775-03-1.
43. Mahanti A., Jash, S. S., Pal ,M., Ghatak, R. February 19-20, 2016 Near Field and Far Field Characteristics of a Typical Base Station Antenna Array with Variation in Radome Shape and Material Permittivity Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.133-136, ISBN No. 978-93-85775-03-1.
44. Maji, K. B., Choudhury, S., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015. An Evolutionary Algorithm Based Approach for VLSI Floor-planning. IEEE TICST 2015, Thailand.*
45. Maji, K. B., Choudhury, S., Kar, R., Mandal, D., Ghoshal, S. P. November 4-6, 2015 An Evolutionary Algorithm Based Approach for VLSI Floor-planning IEEE TICST 2015, Thailand.*
46. Maji, K. B., Ghosh, A., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015. An Evolutionary Algorithm Based Approach for Optimal Design of Low Power CMOS Two-Stage Comparator. IEEE TICST 2015, Thailand.*
47. Maji, K. B., Jaiswal, H., Kar, R., Mandal, D., Ghoshal, S. P. November 4-6, 2015 Opposition Harmony Search Algorithm based Optimal Sizing of CMOS Analog Amplifier Circuit IEEE TICST 2015, Thailand.*
48. Maji, K. B., Soumika Sree, U., Kar, R., Mandal, D., Ghoshal, S. P., November 4-6, 2015.Butterworth Filter Design using Seeker Optimization Algorithm. IEEE TICST 2015, Thailand.*
49. Maji ,K. B., Sree, U. S., Kar, R., Mandal, D., Ghoshal, S. P. November 4-6, 2015 Butterworth Filter Design using Seeker Optimization Algorithm IEEE TICST 2015, Thailand.*
50. Maji, K.B., Ghosh, A., Kar, R., Mandal, D., Ghoshal, S. P. November 4-6, 2015 An Evolutionary Algorithm Based Approach for Optimal Design of Low Power CMOS Two-Stage Comparator IEEE TICST 2015, Thailand.*
51. Maji, P., Prasad, B., Roy, S.D., Kundu, S. December 2015 Secrecy Outage of Secondary user in an Underlay Cognitive Radio Network IEEE CODEC, Kolkata.
52. Maji, P., Prasad, B., Roy, S.D., Kundu, S. December 2015 Secrecy Outage of a Cognitive Relay Network with Energy Harvesting and Imperfect CSI IEEE WPMC, Hyderabad.
53. Mallick, S., Sudhakar, K., Kar, R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 CMOS Analog Amplifier Circuit sizing using Opposition based Harmony Search Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
54. Mallick, S., Sudhakar, K., Kar, R., Mandal, D., Ghoshal, S. P. April 6-8, 2016. CMOS Analog Amplifier Circuit sizing using Opposition based Harmony Search Algorithm. IEEE ICCSP 2016. Melmaruvathur, Tamil Nadu, India.*
55. Mondal, S., Roy, B., Kumar, A., Chakraborty, U., Chowdhury, S.K., Bhattacharjee, A.K., 7-8 May 2015. A compact microstrip antenna with modified triangular slotted ground plane for Satellite (X-band downlink) Communication. ICCSCM 2015. Langkawi,Malaysia. 36-39.

56. Nallagonda, S., Chandra Sekhar, V., Chandra, A., Roy, S. D., Kundu, S. December 13-16, 2015. Detection performance of soft data fusion in Rician fading channel for cognitive radio network. IEEE WPMC, Hyderabad.
57. Nallagonda,S., Sekhar, V. C., Chandra, A., Roy, S.D., Kundu, S. December 2015 Detection Performance of Soft Data Fusion in Rician Fading Channel for Cognitive Radio Network IEEE WPMC, Hyderabad.
58. Nikita, Prabhat A., Pal, M., Ghatak, R. 2015 Characterization of Asymmetric Planar Coupled Lines International Journal of Electronics and Communication Engineering, Vol.6, No. 01, Spl.01, pp.95-98.
59. Nimmana, N. Pal, M., Ghatak, R. February 19-20, 2016 Compact UWB Bandpass Filter Embedding HMSIW with Open Loop Resonators Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.140-143, ISBN No. 978-93-85775-03-1.
60. Pal, H., Ghosh, S., Chatterjee, R., Mahapatra R., Chatterjee, S., January 2016. Piezoelectric Energy harvesting Devices for Recharging Cell-phone Batteries. IEEE MicroCom 2016, NIT Durgapur.
61. Pal ,M., Ghatak, R., February 19-20, 2016 Planar Resonators in Microwave Circuit Design Proceedings of Materials, Devices, Circuits in Communication Technology, MDCCT-2016, pp.137-139, Feb 19-20 2016. ISBN No. 978-93-85775-03-1.
62. Pal, P. S., Banerjee, S., Kar, R., Mandal, D., November 4-6, 2015. Parametric Identification of Box-Jenkins Structured Closed-loop Hammerstein Systems using Gravitational Search Algorithm. IEEE TICST 2015, Thailand.
63. Pal, P. S., Banerjee, S., Kar, R., Mandal, D. November 4-6, 2015 Parametric Identification of Box-Jenkins Structured Closed-loop Hammerstein Systems using Gravitational Search Algorithm IEEE TICST 2015, Thailand.
64. Pal, P. S., Choudhury, S., Ghosh, A., Kumar, R. V., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of a Two Stage Cascaded Nonlinear System of Trigonometric Nonlinearity using Particle Swarm Optimization with Aging Leader and Challengers IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
65. Pal, P. S., Choudhury, S., Ghosh, A., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Social Emotional Optimization Algorithm Based Identification of Nonlinear Hammerstein Model IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
66. Pal, P. S., Choudhury, S., Ghosh, A., Kumar, R. V., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of a Two Stage Cascaded Nonlinear System of Trigonometric Nonlinearity using Particle Swarm Optimization with Aging Leader and Challengers IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
67. Pal, P. S., Choudhury, S., Ghosh, A., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Social Emotional Optimization Algorithm Based Identification of Nonlinear Hammerstein Model IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
68. Pal, P. S., Ghosh, A., Choudhury, S., Debapriya, D., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of Hammerstein Model using Bacteria Foraging Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
69. Pal, P. S., Ghosh, A., Choudhury, S., Kumar, A., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Hammerstein Model based System Identification using Craziness Based Particle Swarm Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
70. Pal, P. S., Ghosh, A., Choudhury, S., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of Fourth Order Nonlinear Polynomial Model using Simplex Particle Swarm Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
71. Pal, P. S., Ghosh, A., Choudhury, S., Debapriya, D., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of Hammerstein Model using Bacteria Foraging Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
72. Pal, P. S., Ghosh, A., Choudhury, S., Kumar, A., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Hammerstein Model based System Identification using Craziness Based Particle Swarm Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*
73. Pal, P. S., Ghosh, A., Choudhury, S., Kar ,R., Mandal, D., Ghoshal, S. P. April 6-8, 2016 Identification of Fourth Order Nonlinear Polynomial Model using Simplex Particle Swarm Optimization Algorithm IEEE ICCSP 2016 Melmaruvathur, Tamil Nadu, India.*

74. Pal, P. S., Kar, R., Mandal, D., Ghoshal, S. P., September 4-5, 2015. System Identification of Linear Unstable Plants Using Craziness Based Particle Swarm Optimization Algorithm. IEEE NGCT-2015, 607 - 611.*
75. Pal, P. S., Kar ,R., Mandal, D., Ghoshal, S. P. September 4-5, 2015 System Identification of Linear Unstable Plants Using Craziness Based Particle Swarm Optimization Algorithm IEEE NGCT-2015, pp. 607 - 611, Dehradun, India.*
76. Patra, S., Mandal, S. K., Mahanti, G. K., Pathak, N. July 09 - 11, 2015 Synthesis of Flat-Top Power Pattern in Time-Modulated Unequally Spaced Linear Arrays using DE, IEEE International Conference RETIS 2015, Kolkata.
77. Prasad, B., Roy, S.D., Kundu, S. 2015 Secondary Throughput in Underlay Cognitive Radio Network with Imperfect CSI and Energy Harvesting Relay IEEE ANTS 2015, Kolkata.
78. Prasad, B., Roy, S.D., Kundu, S. December 2015 Throughput of Secondary User in Underlay Cognitive Relay Network with Energy Harvesting IEEE WPMC, Hyderabad.
79. Prasad,B., Sankararao, U.G.A., Roy, S.D., Kundu, S. 2016 Throughput and Outage Probability of Wireless Energy Harvesting Based Cognitive DF Relaying Network International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016).
80. Ram, G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S.P., Banerjee, S., 2015. Sidelobe and Beamwidth Optimization of Linear Antenna Arrays with Symmetric Relocation Boundary Condition of PSO. IEEE WIECON-ECE, 2015.
81. Ram, G., Chakravorty, P., Mandal, D., Kar, R., Ghoshal, S. P., Banerjee, S. 2015 Sidelobe and Beamwidth Optimization of Linear Antenna Arrays with Symmetric Relocation Boundary Condition of PSO IEEE WIECON-ECE 2015.*
82. Roy, B., Bhattacharya, A., Bhattacharjee, A.K., Chowdhury , S.K., Jan.2015.A Novel Wideband Spade Shaped Monopole Antenna with Ring Geometry for Wireless Applications. EDCAV IEEE,110-113.
83. Roy, B., Bhattacharya, A., Bhattacharjee, A.K., Chowdhury , S.K., 26-27 Feb. 2015.Effect of Different Slots in a Design of Microstrip Antennas. ICECS 2015.IEEE, 386-390.
84. Roy, B., Bhattacharya, A., Bhattacharjee, A.K., Chowdhury , S.K., 26-27 Feb. 2015.UWB Monopole Antenna design in a different Substrate using Sierpinski Carpet Fractal Geometry",ICECS 2015.IEEE,382-385.
85. Roy, B., Bhattacharya, A., Bhattacharjee, A.K., Chowdhury S.K., 7-8 May 2015. A Wideband Monopole Antenna with Iterative Patch Structure applicable for WLAN and WiMAX Communications. ICCSCM 2015.Langkawi,Malaysia.73-76.
86. Roy, B., Kumar, R., Maiti, M., Bhattacharjee, A.K., Chowdhury, S.K., 7-8 May 2015. Effect of Different Substrates on Rectangular Microstrip Antennas Embedded with Close-ended Ground Slots. ICCSCM 2015.Langkawi, Malaysia. 275-278 .
87. Sahoo, J., and R Mahapatra, R. January 2016 Center Potential Based Threshold Voltage Modelling of TM-CGAA MOSFET IEEE MicroCom 2016, NIT Durgapur.
88. Sanyal, R., Prasad, B., Roy, S.D., Kundu, S. January 2016, Performance Analysis of Power Controlled Cognitive Radio with Imperfect Nakagami-m Fading CSI IEEE International Conference on Microelectronics, Computing and Communication (MicroCom 2016) NIT Durgapur.
89. Sarkar, M., Majumder, A., March 13-15, 2015. TOP: An Algorithm in Search of Biologically Enriched Differentially Connected Gene Networks 5th Annual International Conference on Advancements in Biotechnology, pp. 124-133, IIT Kanpur, India.
90. Sharma, S., Prasad, B., Roy, S.D., Kundu, S. March 2016 Outage Performance of Secondary User in Cognitive Relay Network with Multiple PUs IEEE Recent Advances in Information Technology (RAIT), ISM Dhanbad.
91. Sinha, A., Mandal, C., Mandal, S. K. Jan 23 - 25, 2016 Implementation of a GUI to Visualize EM fields using MATLAB, IEEE International Conference MicroCom 2016, Dept. of ECE, NIT Durgapur.
92. Yadav, K., Bhowmick, A., Roy, S.D., Kundu, S. March 2016 Cooperative Spectrum Sensing based on Dynamic Clustering with Improved Energy Detector IEEE Recent Advances in Information Technology (RAIT), ISM Dhanbad.
93. Yadav, K., Bhowmick, A., Roy, S.D., Kundu, S. December 2015 Cooperative Spectrum Sensing based on Dynamic Clustering IEEE International conference on Computers and Devices for Communication (CODEC), University of Calcutta.

94. Yadav, K., Prasad, B., Roy, S.D., Kundu, S. February 2015 Outage Analysis of Secondary User in Overlay/Underlay model International conferenCe on Futuristic trends on computational Analysis and knowledge management (ABLAZE), Noida.
95. Yadav, S., Mandal, D. May 15-16, 2015 Synthesis of Linear Dipole Antenna Arrays with Mutual Coupling Effect Using Novel Particle Swarm Optimization Algorithm IOSRD International Conference on Developments in Science, Management and Engineering, Vol 3, pp 239-245.

Department of Humanities and Social Sciences

1. Sinha, M., Sengupta, P. P., January 9-11, 2016, Foreign Direct Investment and Industrial Productivity: A sector Level Analysis in India, International Conference on business and Information management (ICBIM 2016), IEEE Catalogue.
2. Sinha, M., October 28-30, 2015, Post Liberalization Trends in Indian Current Account Balance: Testing the Role of Foreign Direct Investment", presented at Graduate Research Meet 2015 at Indian Institute of Technology Guwahati
3. Sinha, M., Sengupta, P. P., October 30-31, 2015, Service Export and Foreign Direct Investment: An Empirical Exercise in Post Reform India, 17th Annual Conference of NEEA organized by Rajiv Gandhi University, Arunachal Pradesh.
4. Dutta, U .P., Sengupta, P. P., February 25-26, 2016, Migrant Remittances and its Impact on Poverty: Evidence from India, ECONference 2016, Inclusive and Sustainable Development, Department of Economics, The University of Burdwan.
5. Sinha, M., February 25-26, 2016, Capturing the Disparity in Educational Participation among the Socio-Religious Groups: An Indian Experience, ECONference 2016, Inclusive and Sustainable Development, Department of Economics, The University of Burdwan.

Department of Information Technology

1. Adhikari, A., Singh, S., Dutta, A., Dutta, B., November 1-4, 2015. A novel information theoretic approach for finding semantic similarity in WordNet IEEE TENCON, Macau, China.
2. Chel, H., Nandi, D., Bora, P.K., December 21-24, 2015. Image registration in presence of multiplicative noise by particle swarm optimization International Conference on Image Information Processing, Shimla, India.
3. Choudhury, B., Choudhury, S., Dutta, A., December 6-9, 2015. A Multi-agent based optimized service replication scheme for SOC in mobile AdHoc environment International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), Singapore.
4. Chowdhury A. B., Mukhopadhyay, S., Singh, V. K., Chowdary, A. M., July 31-01 August, 2015. Double auction mechanism for spectrum trading in combinatorial domain. International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-2015), Bangalore, India.
5. Dalapati, P., Singh, A. J., Dutta, A., December 6-9, 2015. Multiagent based algorithmic approach for fast response in railway disaster handling International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), Singapore.
6. Das, D., Mukhopadhyaya, S. February 5-6, 2016 Title of Multi-robot Assembling Along a Boundary of a Given Region in presence of Opaque Line Obstacles Second International Conference on Intelligent Computing & Applications (ICICA 2015) Chennai, India
7. Dutta, S. Roy, P. K., Nandi, D., September 12-13, 2015. Optimal location of TCSC and TCPS using hybrid DE/CRO algorithm. Michael Faraday IET International Summit (MFIIS-2015) Kolkata, India.
8. Mukhopadhyay, J., Pal, A., Mukhopadhyay, S., Singh, V. K, August 21-23, 2015. Participatory sensing system in presence of multiple buyers. International Conference on Data Mining and Warehousing (ICDMW 2015) Bangalore, India.
9. Sen, S., Ghosh, M., Dutta, A., Dutta, B., January 8-10, 2015. Hypergraph based query optimization International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India.
10. Sen, S., Agrawal, A., Rathi, A., Dutta, A., Dutta, B., June 24-27, 2015. An analytical approach for query optimization based on hypergraph International Conference on Telecommunications and Information Technology (ECTI-CON), Thailand.
11. Singh, V. K., Mukhopadhyay, S., Debnath, N., Chowdary, A. M., October 14-17, 2015. Auction aware selection of doctors in e-healthcare (Healthcom) Boston, USA.

Department of Management Studies

1. Bandyopadhyay, G., De, A., Banerjee, A. December 17-19, 2015. A Study on Behavioral Biases among Selective Indian Investors. International Conference on Business Analytics and Intelligence
2. Banerjee, S., Bandyopadhyay, G., "The Impact of Grading on Listing and Market Return of IPOs in India -A Periodical Review on SEBI's move towards voluntary IPO Grading", ICBIM 2016 held at National Institute of Technology, Durgapur in collaboration with IEEE Kharagpur Section.
3. Bhattacharya, J, Mandal K and Bhowmik, I. 30-31 october,2015, 17th North Eastern Economic Association Conference,Doimukh, Arunachal Pradesh, India. In quest for a Health Index for the North Eastern states of India. (Abstract Proceedings)
4. Ghosh A. & Kaushal S., September 12-13, 2015. Performance and prospects of NPS in Unorganized sector: A case study of Burdwan District in West Bengal. UGC Sponsored National Seminar on "Financial Inclusion: Challenges and Prospects", held at Department of Commerce, Malda College, Malda, West Bengal, in collaboration with ICAI.
5. Ghosh, P., Guha, B., Bandyopadhyay, G., "Positioning of low-cost airlines based on Effectiveness of customer service: An Application of DEA and CV", ICBIM 2016 held at National Institute of Technology, Durgapur in collaboration with IEEE Kharagpur Section.
6. Gupta, H,mandal,K and Dutta A. January 9-11,2016. The Pharmaceutical Education Quality problem-A literature Review. International conference on business and information management (ICBIM16), Durgapur, India IEEE conference record-32849. IEEE catalog number CFP1404X-CDR. ISBN: 978-1-4799-3263-4@IEEE.
7. Mahapatra, M., Raveendran J., De, A. January, 9-11, 2016. Mental accounting and Financial Cognitive processes on Personnel Financial Planning: A study in Indian Context. 3rdInternational Conference on Business Intelligence, and Management, held at National Institute of Technology, Durgapur in collaboration with IEEE Kharagpur Section.
8. Mandal K, Roy,D and Bagchi, K. August 12-14,2015, 2015 international conference of Business and Applied Societies of North America, New York, USA. Customer Orientation of Indian Tourism Entrepreneur: An empirical Analysis. http://baasana.org/wp-content/uploads/2015/2015BAASANAProceedings.pdf
9. Pal, D., Bose, S. October 9-11, 2015 A Study on the Impact of Employee Demography and Perceived Flexibility Demand on Organizational Identification. Centenary International Conference on Psychology: Psychology and Challenges of the Developing World, University of Calcutta, Kolkata, India.

Department of Mathematics

1. Ghosh, D., Majumder, S., Pal, A., June 27-28, 2015. Searching Shortest Path in a Network using Modified A* Search Algorithm, AASRI International Conferences on Industrial Electronics and Application (IEA-2015), London, UK.
2. Bhattacharjee, J., Pal, A., Mukhopadhyay, S., Singh, V. K. August 21-23, 2015. Participatory Sensing System in Presence of Multiple buyers. Published in IEEE Eleventh International Multi-Conference on Information Processing-2015(IMCIP-2015), Elsevier Procedia-Computer Science (hard copy) and Science Direct (Online).
3. Ghosh, D., Pal, A.,Dec 17-19, 2015. Using Fuzzy Model to analyze the effect of social networks on children's daily life published in Proc. of Calcutta Mathematical Society, Kolkata in National Conference on Emerging Trends in Mathematics and Mathematical Sciences NCETMMS 2015.

Department of Mechanical Engineering

1. Khankari, G., Karmakar, S., 22-24 Feb, 2016. Condenser Waste Heat Recovery in a Coal-Fired Subcritical Steam Power Plant using Kalina Cycle. National Symposium on Multiphase Flow (NSMF 2016), NIT Durgapur, India.
2. Khankari, G., Munda, J., Karmakar, S., 15-17 Dec, 2015. Power Generation from Condenser Heat Loss of Coal-fired Thermal Power Plant using Kalina Cycle. 5th International Conference on Advanced Energy Research (ICAER 2015), IIT Bombay, India.
3. Nasir, H. S., Khan, K. February 25-27, 2016. Free Vibration Analysis of cross-ply Laminated bimodular Beam Using Equivalent Stiffness Method. Proc. of the 1st International Conference on Advances in Dynamics, Vibration and Control (ICADVC-2016). NIT Durgapur, India.

Department of Metallurgical and Materials Engineering

1. Bandyopadhyay B, Mallik M and Bhattacharyya A, Nov 2015 "Microstructure modification improves wear behavior of Cu-Sn alloy,"Poster presentation in National Metallurgist Day-Annual Technical Meeting, Coimbatore, India.
2. Das S. and Ghosh M. M. Ghosh, Aug 2015 Thermal Conductivity of Nanofluids: A Study using MD Simulation coupled with Stochastic Analysis, presented in the international conference "First Thermal and Fluids Engineering Summer Conference (TFESC-2015)" held at New York, USA during Aug. 09-12
3. Paul T. R, Mondal M. K, and Mallik M, Feb 2016 "Microstructure, mechanical properties and oxidation behavior of ZrB2 -20 vol. % MoSi2 composite," MRSI North East Symposium on Advanced Materials for Sustainable Applications, Jorhat, India.
4. Paul T. R, Mondal M. K, Mallik M, Feb 2016 "Effect of particle size variation on densification and mechanical properties of ZrB2-SiC composites, MRSI North East Symposium on Advanced Materials for Sustainable Applications, Jorhat, India.

Department of Physics

1. Banerjee D., Sahoo S., 2015. Estimation of mass of boson from decay. Proceedings (Vol. 60, pp. 648–649) of the "DAE-BRNS Symposium on Nuclear Physics" organized by Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam – 515134, A. P., India, 07–11 December, 2015.
2. Banerjee D., KumarM., Sahoo S., 2015. Prediction of mass of boson from the study of and decays. Abstracts (p. 148) of XXVII IUPAP (International Union of Pure and Applied Physics) Conference on Computational Physics (CCP–2015)" held at the IIT Guwahati during 02–05 December, 2015.
3. Banerjee D., Sahoo S., 2015. Study of rare baryonic decays in model. Abstracts (p. 152) of XXVII IUPAP (International Union of Pure and Applied Physics) Conference on Computational Physics (CCP–2015)" held at the IIT Guwahati during 02–05 December, 2015.
4. Banerjee D., Sahoo S., 2015. Evaluation of mass of boson from decay", ABSTRACTS (p. 62) of National Conference on "Current Issues in Cosmology, Astrophysics and High Energy Physics (CICAHEP-2015)" held at Dibrugarh University, Assam, India during 02–05 November, 2015.
5. Chakraborty, N., Sivaprakash, S., Chakraborty, A.K. Electrochemical properties of CNT/NiO composite, AIP Conference Proceedings, 1665, 050072, 2015.
6. Chaudhuri. H., Sinha, B., D. Chandrasekharam, D., April 19-25, 2015. Helium from geothermal sources. Proceedings of World Geothermal Congress 2015Held at Melbourne, Australia (International Conference).Chaudhuri. H., August 31, 2015-September 04, 2015. Nonlinearity in Earthquake Precursory Signals. Proceedings of International Conference: 7th Dresden Symposium-Hazard Detection and Management held at Dresden University of Technology and SARAD GmbH, Germany.
7. Chaudhuri. H., November 10-16, 2015. Earthquake Precursory Signals at Tatta Pani Hot Spring Site, J&K. Proceeding of Earthquake Hazard: Basic Approaches, Field Investigations and Modeling, held at Vaishno Devi University, Katra, Jammu & Kashmir (International Conference)
8. A. K. Das, and A. K. Meikap, 8-12 December 2015, DC Conductivity Behaviour of polyvinyl alcohol silver, 4th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2015) PP - 30
9. A. K. Das, B. Dutta, S. Sinha, A. Mukherjee, S. Basu and A. K. Meikap, 21-25 December 2015 Electrical Transport Properties and Current density-Voltage Characteristic of PVA-Ag Nanocomposite film, 60th DAE-Solid State Physics Symposium, Page – 258
10. Das D. K., Sahoo S., 2015. Graphene as a Knee Replacement Material. Proceeding (pp. 289–293) of The second National Conference on "Emerging Trends in Engineering and Sciences (ETES- 2015)" held at Asansol Engineering College, Asansol during 16–17 July, 2015.
11. Das D. K., Paul T. R., Santra S., Datta S., Sahoo S., 2015. Graphene as artificial tooth enamel. ABSTRACTS (p. 46) of the "International Conference on Nanoscience, Nanotechnology and Adavanced Materials" organized by GITAM University, Visakhapatnam - 530045 (A. P.), India, 14–17 December, 2015.
12. Das D. K., Sahoo S., 2016. Graphene in the Core of Optical Fibers. Proceedings of the 10th INDIACom; INDIACom-2016, IEEE Conference ID:37465; International Conference on "Computing for Sustainable Global Development (pp. 299–302)

organized by Bharat Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, India during March 16 – 18, 2016. ISSN 0973-7529 ; ISBN 978-93-80544-19-9.
13. Das D. K., Sahoo S., 2015. Aromatic Graphene. The 2nd International Conference on "Emerging Technologies: Micro to Nano (ETMN–2015)" held at Manipal University, Jaipur during 24–25 October, 2015 AIP Conference Proceedings, Vol. 1724, pp. 020035 (7 pages 2016).
14. Das, R., Gupta R. K., Gupta, T., Maji, C., Chaudhuri, H., February 2016. Wavelet in study of Earthquake Precursory Signals. Proceedings of International Conference on 4th Complex Dynamical Systems and Application (CDSA 2016), NIT Durgapur.
15. Das, R., Gupta R. K., Gupta, T., Maji, C., Chaudhuri, H., March 2016. Study on geothermal power generation techniques related to Bakreswar-Tantloi geothermal area. Proceedings of International Conference on Renewable Energy-Extension & Outreach. Visva-Bharati, Santiniketan, India.
16. Goswami D., Biswas S., Kumbhakar P., January 16-18, 2016. Simple Hydrothermal Synthesis on ZnO Nano-flowers and its Application as Photocatalysts. International conference on Advances in Light Technologies and Spectroscopy of Materials, University of Lucknow, PP-51, page 156.
17. M. Goswami, A. Mukherjee, R. Ghosh and A. K. Meikap 21-25 December 2015. Synthesis and Electrical Properties of PANI-CNT-CdS Nanocomposites, 60th DAE-Solid State Physics Symposium, Page - 264
18. Gupta, T., Maji, C., Gupta R. K., Das, R., Chaudhuri, H., March 2016. Harnessing geothermal energy at Bakreswar geothermal area. Proceedings of International Conference on Renewable Energy-Extension & Outreach. Visva-Bharati, Santiniketan, India.
19. Gupta R. K., Gupta, T., Das, R., Maji, C., Chaudhuri, H., December 2015. Geothermal Potential at Bakreswar-Tantloi Geothermal Area, West Bangal-Jharkhand: A Promising Green Energy Resources. Proceedings of India International Science Festival-2015, held at IIT Delhi (International Conference).
20. Gupta R. K., Maji, C., Das, R., Gupta, T., Rashmikant, Chaudhuri, H., February 2016. Frequency Analysis of Complex Earthquake Precursory Signals. Proceedings of International Conference on 4th Complex Dynamical Systems and Application (CDSA 2016), NIT Durgapur.
21. Gupta R. K., Biva Sharma, Maji, C., Gupta, T., Chaudhuri, H., February 2016. Multifractal Detrended Fluctuation Analysis of Natural Gas Emission from Hot Springs. Proceedings of International Conference on 4th Complex Dynamical Systems and Application (CDSA 2016), NIT Durgapur.
22. R. N. Jana and A. K. Meikap, 21-25 December 2015 Strong Spin-Orbit interaction and Quadratic Temperature dependence of electron-phonon scattering in Disordered V75X25 (X = Pd, Al) Alloys at Low Temperature,60th DAE-Solid State Physics Symposium, Page - 244
23. Karmakar S., Biswas S., Kumbhakar P., January 16-18, 2016. Green Synthesis of Fe3O4 Nanoparticles and its Excellent Photo-catalytic Performance, International conference on Advances in Light Technologies and Spectroscopy of Materials, University of Lucknow, PP-57, page 163.
24. Karmakar S., Biswas S., Kumbhakar P., March 8-9, 2016. Facile Synthesis of Copper Hydroxide Microparticles and Study of Its Optical Property and Photocatalytic Activity, National Thematic Workshop on Recent Advances in Materials Sciences, UGC-DAE Consortium for Scientific Research Kolkata Centre & University of Burdwan, Burdwan, India.
25. Kumar, A., Chaudhuri, H., October 30-31, 2015. Data Automation for Online Earthquake Precursory Signals. Proceedings of Conference of National Symposium on Instrumentation (NSI 40), held at Kumaraguru College of Technology, Coimbatore.
26. Kumbhakar P., Biswas, S., January 16-18, 2016. Photoluminescence, Nonlinear Optical and Photocatalytic Properties of Some 2D Nanocomposite Materials. International conference on Advances in Light Technologies and Spectroscopy of Materials, University of Lucknow, Lucknow, India, IT-37, page 63.

27. Kumbhakar P., Biswas S., Kumbhakar P., January 16-18, 2016. Effect of Annealing at Different Temperature on Photo-catalytic Activity of Spherical ZnO Nanoparticles. International conference on Advances in Light Technologies and Spectroscopy of Materials, University of Lucknow, PP-56, page 161.
28. Maji, C., Gupta, R. K., Das, R., Gupta, T., Chaudhuri, H., March 2016. Linear and Nonlinear Analysis in Exploration of Geothermal Resources for Power Generation. Proceedings of International Conference on Renewable Energy-Extension & Outreach. Visva-Bharati, Santiniketan, India
29. Mondal A, Dey A, Das AK, Choudhuri B. 30–31 October 2015. Studies on temperature dependence of current-voltage characteristics of glancing angle deposited indium oxide nanowire on silicon substrate, Proceeding of International Conference on Condensed Matter and Applied Physics AIP Conf. Proc. 1728, 020187 (2016)
30. Mukherjee, S., Seal, K., Chaudhuri. H., February 15-17, 2016. Recurrence Analysis of Geochemical Signal Recorded at Mud Volcano, Andaman Islands, India. Proceeding of International Conference on 4th Complex Dynamical Systems and Application (CDSA 2016), held at NIT Durgapur.
31. Nagaraju K. V. V., Das D. K., Sahoo S., 2015. Graphene in railroads. ABSTRACTS (p. 137) of the "International Conference on Nanoscience, Nanotechnology and Advanced Materials" organized by GITAM University, Visakhapatnam - 530045 (A. P.), India, 14–17 December, 2015
32. Pramanik, A., Biswas, S., Kole, A. K., Krishnaraj, N., Kumbhakar, P., January 16-18, 2016. Green Synthesis of highly fluorescent carbon nano particles for its application as Ag+ ions detection. International conference on Advances in Light Technologies and Spectroscopy of Materials, University of Lucknow, Lucknow, India, PP-57, page 162.
33. Pramanik A., Krishnaraj N., Kole A. K., Kumbhakar P., Varalakshmi P., Rai S. K., Ashok Kumar B., Nov. 13-14, 2015. Synthesis of highly fluorescent carbon nano particles from broth constituent and its application as in-vivo bio imaging on C. elegans. National workshop on Advances in Photonics, IIT-Kharagpur, Kharagpur, India.
34. Pramanik A., Kole A. K., Biswas S., Kumbhakar P., March 8-9, 2016. Green Synthesis of Blue Luminescent Carbon Quantum Dots. National Thematic Workshop on Recent Advances in Materials Sciences, UGC-DAE Consortium for Scientific Research Kolkata Centre & University of Burdwan, Burdwan, India.
35. Saha, Keka Talukdar, and Amit K. Chakraborty, 2015. Procedia Materials Science 10, 730-736
36. Sahoo S., 2016. Current issues in high energy physics and cosmology. published in the Souvenir & Proceedings (pp. 18–21) of UGC sponsored National Seminar on "Advances in Physics during the last half century and its applications to society" organized by Department of Physics, Gangadhar Meher University, Sambalpur, Odisha, held during February 27 – 28, 2016.
37. Sarkar, A., Chakraborty, N., Bera, S., Chakraborty, A. K. Optical properties of ZnS and Cu2+ doped ZnS nanostructures, AIP Conference Proceedings. 1665, 050107, 2015.
38. Seal, K., Chaudhuri. H., August 31, 2015-September 04, 2015. Noble Gas Helium – A Tool for Earthquake Precursors. Proceedings of International Conference: 7th Dresden Symposium-Hazard Detection and Management held at Dresden University of Technology and SARAD GmbH, Germany.
39. Sharma, B., Chaudhuri. H., May 25-30, 2015. Non-Linear Analysis of Earthquake Precursors. Proceedings of Time Series Analysis Workshop, Indo-US Science & Technology Programme held at IISER Pune.

Annexure - 11.4(e) Visits abroad during 2015-16

Department of Biotechnology

Name	Name of the Programme	Organized by	Date of the programme
Chattopadhyay S.	Invited plenary talk ASPP-2015, Austin, Texas, USA and Collaborative research	University of Austin, Texas, USA	May 20-Jue 11, 2015
Department of Chemical Engineering			
Mandal M. K.	6th EU-India STI Days	INNO INDIGO call 2014 on Clean Water and Health Rome Italy	15-16, October
Department of Electrical Engineering			
Banerjee S.	41st IECON	IEEE Industrial Electronics Society, Yokohama, Japan	9th -12thNov,2015
Department of Electronics and Communication Engineering			
Bhattacharjee A. K.	International Conference(ICCSCM 2015)	Langkawi,Malaysia	May 7-8, 2015
Department of Humanities and Social Sciences			
Rai Shri Krishan	'International Conference on 'English Studies and the Marketplace'	Dept of English, EWU, Dhaka Bangladesh	Feb 19-20, 2016
Department of Information Technology			
Mukhopadhyay S.	17th IEEE, Healthcom, 2015	IEEE	October 14-17, 2015
Department of Mathematics			
Pal P.	Collaborative research	Carl von Ossietzky University Oldenburg, Germany	May 17- August 11, 2015
Pal A.	3rd International Conference on Computer Science and Data Mining(ICCSDM-2015)	International Scientific Academy of ofof E of Engineering and Technology, Dubai	May 20-21, 2015
Kar S.	Collaborative research	Beijing University of Chemical Technology, Beijing, China	December, 2015-January, 2016
Department of Metallurgical and Materials Engineering			
Bera S.	Post Doc	IFW Dresden, Germany	June 2015-June2016

Name	Name of the Programme	Organized by	Date of the programme
Department of Physics			
Chakraborty A.K.	Collaborative research under Liverpool India Fellowship award	Liverpool University, UK	May 23-Aug 17, 2015
Chakraborty A.K.	Collaborative research under DST-UKIERI bilateral project	The Open University, UK	June 3-7, 2015
Chaudhuri H	International Conference 10 yrs IGRS: 8th Dresden Symposium-Hazard Detection and Management	Dresden University of Technology and SARAD GmbH, Germany	August 31, 2015 – September 04, 2015

Annexure - 11.4(f) Ph.D. degree awarded during 2015-16 session

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Studies on natural resourced hydroxiapatite biomaterials for tissue engineering application	Mondal Sudip	Dey A., Mukhopadhyay, S.S.
Genotypic and Functional Characterization of Wheat Associated Microflora from Different Agro-Ecological Zones	Verma Priyanka	Kazy, S. K., Suman A
Department of Chemical Engineering		
Analysis and Energy Optimization of Natural Circulation Flow	Goswami Nababithi	Paruya S.
Analysis of the nonlinear Instabilities in the Natural Circulation Boiling Flow	Karmakar Arnab	Paruya, S.,
Preliminary Processing of Municipal Solid Waste and Modelling of Landfill	Debabrata Mukhopadhyay	Sarkar J.P
Studies on integrated system for industrial waste and recovery of value added products	Kumar Anuj	Mandal T.

Topic	Investigator	Supervisor(s)
Department of Chemistry		
Water Molecular Dynamics Study of Human Ransthyretin (TTR) and its Mutated Forms	Banerjee Avik	Mukhopadhyay B.P.
Corrosion Inhibition of Brass and Aluminium Alloy In Chloride Solution	Banerjee Ranu	Nandi M.M.
Application of Photo-Fenton's Oxidation and Biological Oxidation for the Degradation of Some Selected Pollutants Present in Petro-Chemical and Coke-Oven Wastewater	Mallik Tirthankar (Regd. with B.U.)	Saha R. N.
Kinetic and mechanistic studies of substitution on square planar d8metal complexes with special emphasis on sulphur containing bioactive ligands	Misra Koyel	Moi S. C.
Department of Civil Engineering		
Topic	Investigator	Supervisor(s)
Design of Water Management System Using Embedded		
System and Soft Computing Technique	Dr. Hariom Goyal	Dr. V.K.Dwivedi & Dr D. K. Singha Roy
Department of Computer Science and Engineering		
SAT based Detailed Routing Architectures for FPGA Architectures	Shyamapada Mukherjee	Roy, S.
Multicast Traffic Grooming with Survivability in WDM Mesh Networks	Ashok Kumar Pradhan	De, T.
Department of Electronics and Communication Engineering		
Study of transport characteristics in bulk and nanostructure Gallium Nitride	Chakraborty Saswata	Bhattacharjee A.K, Majumder S, Biswas A
Relay based Cooperative Spectrum Sensing and Spectrum Sharing in Cognitive Radio Networks	De Chanchal Kumar	Kundu Sumit
Computational Study of Quantum Breathers within Nonlinearity	Mandal Subhra Jyoti	Bhattacharjee A.K, Mandal D, Biswas A

Topic	Investigator	Supervisor(s)
Studies on Multiband Planar Bandpass Filters with Multimode and Integrated Resonators for Wireless Communication	Pal Manimala	Ghatak Rowdra, Aditya A. K and Poddar D .R
Department of Humanities and Social Sciences		
Feminist Approaches—Indian and European—to Classical Women Characters, with Special Reference to Draupadi, Antigone, Medea, Lady Macbeth, Clytemnestra, and Sita	Das, Saptorshi	Modak, A.
Tagore in English Translation: A Postcolonial Perspective	Misra, Debi Prasad	Modak, A.
Transcendental Leadership and Social Responsibility: Management Insights from Rabindranath Tagore and Swami Vivekananda	Pyne, Summauli	Sengupta, P. P. Modak, A.
Department of Management Studies		
Petrochemical Business in Asia:		
Business Strategy in Post-Globalized era	Khastagir, D.	Prof.M.Roy
Study on nature of Relationship between Channel Power and Influence Strategy vis-a-vis Channel Management practices prevalent in India	Roy, Koushick	Mandal, Kaushik
A study on the relationship of promotional mix with sales and profits	Siddhanta, Somroop	Banerjee,Neelotpaul
Department of Mathematics		
Optimization problems in 2-Banach spaces (Functional analysis approach)	Adak, Utpalendu	Dey, L.K. and Samanta, H.K.
Bifurcations and patterns in Rayleigh-Bénard convection of low Prandtl number fluids	Dan, Surajit	Pal, P.
Study of quasi-symmetric designs and related Orthogonal codes	Ghosh, Debashis	Dey, L.K.
Design of multilayer microwave absorber using evolutionary algorithms	Jyotirmoy Tiwari	Basu. K &Mohanti. G.

Topic	Investigator	Supervisor(s)
Multi Objective multi criteria real life transportation problems under fuzzy environment	Kour, Dalbinder	Basu. K & Mukherjee. S.
Some production inventory models in uncertain environments	Hazari, Samar	Kar, S. Dey J.K. &Maity, K.
Department of Mechanical Engineering		
Design, Development, Testing and Optimization of a Vehicle Suspension Systems	Mitra Anirban C.	Banerjee N.
Characterization, Process Modelling and Optimization of Friction Stir Welding For Joining Dissimilar Metals	Saravanan V.	Banerjee N. and R.AmuthakKannan
Department of Metallurgical and Materials Engineering		
Metallurgical & Materials Engineering	Rout. Prasanta Kumar	Dr. Ghosh K.S. & Dr. Ghosh M.M
Metallurgical & Materials Engineering	Pramanik Susanta	Dr. Mitra S.K.
Department of Physics		
Enlarged photoefficiency of Glancing angle deposited axial SiOx-TiO2 heterostructure nanowires and nitrogen doped TiO2 NWs based detectors	Jay Chandra Dhar	Mondal A.
Some non-linear material based optical logic processor and their applications for high speed Computation and Communication Systems	K. Mukherjee	Meikap A.K. Kumbhakar D.
Studies on GLAD synthesized SiOx-In2-xO3-y axial heterosructure nanocolumn arrays as an efficient optical detector and humidity sensor	Naorem Khelchand Singh	Mondal A.
Investigation on Synthesis and Optical Properties of Some ZnO Nanostructures	Sarbajit Chakraborty	Kumbhakar P.
Electrical Transport Properties of Some Nanostructured Selenides and Selenide based Polymer Nanocomposites	S. Sinha	Meikap A.K. Chatterjee S. K

Annexure - 11.4(g) Ongoing doctoral Programme

Department of Biotechnology

Topic	Investigator	Supervisor(s)
Production of biopesticide from Mucuna pruriens	Acharya Bidyut	Aikat K.
Studies on Genotoxicity of Industrial Effluents and Its Treatment Strategies for Remedy	Behera Minati	Dasgupta Mandal D.
Metabolomics of carotenoid production in Dietzia maris NIT-D(Accession no-HM151403)	Bera Surojit	Dutta D
Interacting partner of CAM7 and its role in light signaling pathways in Arabidopsis thaliana	Biiswas Srabasthi	Chattopadhyay, S.
Cloning and Functional analysis Leishmania donovani Amastin- like surface Protein	Biswas Bapi	Ghosh M
Role of 15-lipoxygenase in the pathogenesis of several diseases	Biswas Pritam	Bhattacharjee, A
Production of hydrocarbon from microalgae	Bobde Kiran Ashok	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 Moumita	Chattopadhyay S.
Biosurfactant production and application	Das Ishita	S Chaudhuri
Role of Src kinases in Monocyte migration	Das Pradip	Bhattacharjee, A
Role of Fanconi proteins in Genomic Instability	Das Tiyasa	Mukhopadhyay, S.S.
Bioremediation of textile dye	Dasgupta, Arpan	S Chaudhuri
Vesicle docking Protein of L. donovani, it's cloning, purification and functional assay.	Deepthy Sagarika	Ghosh, M
Role of a novel signaling complex in regulating IL-13-induced 15-lipoxygenase expression in monocytes	Dhabal Sukhamoy	Bhattacharjee, A
Studies on the kinetics for enhanced production of rapamycin	Dutta Subhashish	Dey, A.
Extraction, purification and characterization of bioactive compounds from food waste	Gehlot Sameep	Chaudhuri S. Bhattacharjee A, Dutta D
Pathogens associated innate immune response through inhibition of macrophage functions	Halder Sudeshna	Mahata, N.
Development, characterization and optimization of novel drug delivery system against degenerative diseases through statistical modelling	Hazra Moumita	Dasgupta Mandal D., Mandal, T.
Role of Fanconi Anemia Proteins in Mitochondria	J. Ch. Bose K.	Mukhopadhyay, S.S.
Production of bacterial cellulose	Kumar Prakash	Aikat K. & Kaushik B.D., (Anand Engg Coll, Agra)

Topic	Investigator	Supervisor(s)
Leishmanial Apical Membrane Antigen: The Probable Functional Analysis in Cell adhesion & Infection.	Laha Bhakti	Ghosh M.
Functional Insights of Fanconi Anemia proteins : special Reference to Miotchondria	Mahto Ramabalak	Mukhopadhyay, S.S.
Pigment production from microbial isolates	Mitra Ruchira	Dutta D.
Assessment on the Treatment of Pharmaceutical wastewater using sorption & bioremediation techniques	Mondal Sandip	Aikat K. & Haldar, G. (Chem Engg Dept)
A study on Candida infection in HIV/AIDS patients in a tertiary care hospital in Kolkata	Mukherjee Mita	Dutta D., Basak S., Guha S. K
Diversity and metabolic potential of indigenous bacteria in petroleum contaminated sludge from oil field: prospects for bioremediation	Pal Siddhartha	Kazy S K
Identification and characterization of interacting partner of CAM7/ZBF3 in Arabidopsis seedling development	Parvez S.W.	Chattopadhyay, S
Studies on biodelignification to improve the paper quality & minimize the generation of Genotoxic effluents	Rashmi Priyadarshini	Dasgupta Mandal D
Engineering of cellulase enzymes of Aspergillus fumigatus NITDGPKA3 for enhancing their activity and development of recombinant cellulosic Saccharomyces cerevisiae for bioethanol production from rice straw.	Reddy Subba Dodda	Mukhopadhyay, S.S. & Aikat, K.
Assessment of microbial communities and their bioremediation potentials in petroleum contaminated sludge from oil refineries	Roy Ajoy	Kazy S. K.
Functional analysis of G-protein coupled receptor in Magnaporthe oryzae	Sabnam Nazmiara	Roy Barman S.
Biodegration of organochlorine pesticides	Sahoo Banishree	S Chaudhuri
Antimicrobials from natural sources	Saini Swamini	S Chaudhuri, D Dutta
Characterization and optimization of pigment production from an isolated strain	Samanta Amit	Dutta D.
Chaudhuri S.		
Investigation of functional interrelations of ZBF3/CAM7 with COP1 in Arabidopsis seedling development	Senapati Dhirodatta	Chattopoadhyay S.
Extraction & application of natural dyes	Sinha Keka	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 A.K	Chattopadhyay, S.
Anti-leishmanial effect of Statins and micronutrients, exploring mechanistic actions.	Verma Amit Kumar	Ghosh M
Fermentative production of Pectinase enzyme by Aspergillus spp	Verma Heena	Dey, A and Goswami, S

Topic	Investigator	Supervisor(s)
Department of Chemical Engineering		
Studies on Biomethanation using Codigestion of Vegetable Wastes with Algal Mass	Ajeej Amritha	Prof.C.M.Narayanan
Comparative Studies on Gas-Particle Hydrodynamics and Heat Transfer in Uniform & Converging Riser	Anandhakrishna R	Sarkar J.P
Experimental study on the treatment of coalmine waste water using integrated approach	Banerjee Soumya	Halder G. N. Mandal T
Modelling And Experimental Investigations On Drying, Pyrolysis, Combustion And Gasification Of Biomass And Its Blends	Banerjee Anupam	Prof. P. Gupta, Prof. A. K. Sadhukhan
Microbial Production of Gluconic Acid	Banerjee S.	Pal P.
Experimental study on the treatment of coal mine wastewater using integrated approach	Banerjee S.	Mandal T.
Production Management through Optimization Strategy	Basu Sanghita	Pal P & Roy M
Numerical Modelling of Bubble Dynamics in Boiling Flow	Bhati Jyoti Ghanta K. C	Paruya, S.,
Studies on the production of Xylitol from Lignocellulose Biomass	Bhattacharya Anamica	Prof. A. K. Sadhukhan, Dr. P. K. Chatterjee
Study on acidic gas separation & utilization of CO2 into valuable products: A membrane integrated approach	Bhattacharya Madhubanti	Mandal M. K.
Studies on Pyrolysis Of Waste Tyres and Fuel Recovery	Bhattacharyya B. B.	Prof. A. K. Sadhukhan, Dr. B B Ruj , Prof. P. Gupta
Modelling and experimental investigations on pyrolysis and combustion of coal	Bhunia Shyamal	Prof. S. Haldar, Prof. A.K. Sadhukhan, Prof. P. Gupta
Abatement of Fluoride from Ground Water and Wastewater	Biswas Gargi	Dr. Susmita Dutta Dr. Kalyan Adhikari
A Study of Adsorptive Removal of Carbon dioxide from Biogas for Enrichment of Methane by Pressure-Swing Adsorption Mechanism	Chakrabarty P	Halder G. N.
A Techno-management Study Towards sustainable Solution to arsenic and fluoride contamination problem	Chakrabortty ,S.	P.Pal, M.Roy
Arsenic Transport through Vegetation	Chanda S.	Pal P & Saha R
Studies on the effect of chemical Environment on health of concrete structures at national installations	Chatterjee Abhijit	Prof. A. K. Sadhukhan, Dr. P. K. Chatterjee
Studies on textile wastewater treatment using Membrane-Integrated Systems	Dasgupta Jhilly	Dr. Jaya Sikder
Studies on Enzymatic Synthesis of Biodiesel from Microalgae Oil / Neem Oil using Fluidized Bed / Semifluidized Bed Bioreactors	De Tripti	Prof.C.M.Narayanan, Dr. Jaya Sikder

Topic	Investigator	Supervisor(s)
Green Process for Production of Glutamic acid	Dekonda V.C.	Pal P.
Experimental investigation on transesterification of non-edible oils Employing biocatalyst and indigenously developed carbon supported chem-catalyst	Dhawane Sumit Hanspal	Kumar T, Halder G. N.
Comparative Hydrodynamics and Gas-Solid Heat Transfer between a Straight and Converging Vertical Dilute Phase Pneumatic Riser	Dhuranshar Rashmi	Sarkar J.P Das B
A critical Investigation on Biodegradability, Morphology and Thermo-mechanical properties of synthetic polymer blended with modified starch	Dutta Deepshika	Halder G. N.
Studies on the rotating fluidized bed in static geometry chamber for intensifying drying performance	Dutta Subhajit	Prof. A. K. Sadhukhan, Dr. P. K. Chatterjee Prof. P. Gupta
Phycoremediation of Cyanide and carbon di oxide Sequestration using microalgae : An Integrated approach	Ganta Upendar	Dutta S. Ghanta K. C.
Effect of Waste Plastics on the Physical Structure and Subsequent Anaerobic Digestion of Vegetable Waste Landfill Bed.	Ghosh Anaya	Sarkar J.P Das B
Optimization and preparation of targeted drug delivery system against degenerative liver diseases	Hazra M.	Mandal T.
Modeling and Experimental Investigation on Pyrolysis and Gasification of Biomass	Kamilla Biswajit	Prof. P. Gupta, Prof. A. K. Sadhukhan
Experimental study on the role of hybrid technology of leather industrial wastewater for reduction of toxic effects	Kannaujiya M.C.	Mandal T.
Experimental investigation of carbon dioxide sequestration from flue gas through chemical absorption of blended amines	Khan Anoar Ali	Halder G. N. Saha A
Studies on Instability of Incompressible Fluid Flow through Flexible Tubes.	Laik Debashree	Sarkar J.P
Production of Bioethanol from Sugarcane Bagasse in a Membrane - Integrated Hybrid Reactor with the aid of humic acid as the pretreatment agent	Maheswari Uma. R	Dr. Jaya Sikder
Fermentative production of l-Asparatse by using an unique fungus	Midha D.K.	Mandal T.
Hydrodynamics and Erosion Studies for Flow of Particulate Slurries	Mishra Rahul	Ghanta K C Mullick A N
Hydrodynamics and Thermal Studies for Flow of Particulate Slurries	Mishra Sudhanshu	Ghanta K C Mullick A N
Isolation and Characterization of Micro-organisms/Micro-algae from North East region and Eastern Coal mines for Bio-Sequestration of CO2 and its Utilization towards Generation of Bio-fuel	Mondal Madhumanti	Halder G. N. Mandal M. K.
Two phase flow studies-A CFD modelling	Mondal Prantik	Ghanta K C

Topic	Investigator	Supervisor(s)
Experimental Study of Defluoridation of contaminated Groundwater by biosorption and bioremediation in Integrated Column Reactor	Mukherjee Shraboni	Halder G. N.
Development of fire-retardant polymer	Mukherjee Aparna	Halder G. N.
Synthesis of Bioethanol from rice straw using bioreactors	Mukherjee A.	Mandal T.
Experimental Studies on Bubble Dynamics in Boiling Flow	Naik Jithender	Paruya S.
Process intensification in production of Acetic acid	Nayak J.	P.Pal
Development of Filter Media and System for High Temperature Applications	Nayek Sisir	Dr. Kalyan Adhikari Dr. Susmita Dutta
Development of graphene based membrane for waste water treatment	Pal Madhubonti	Mandal M. K.
Studies on Performance Enhancement of Adsorption Chiller - A Distributed Parameter Model Approach	Pandit Dipak	Sarkar J.P Choudhury B
Modeling and Experimental Investigations on Gasification of coal	Prabhakar Ashok	Prof. A. K. Sadhukhan, Prof. P. Gupta
Treatment of Coke Oven Waste Water Using Hybrid Technology	Pramanik Sabyasachi	Prof. K. C. Ghanta Dr. Susmita Dutta
Energy Optimization and Control of a Multi-Stage Evaporator	Roy Koustav	Paruya, S.,
Novel Techno-economic Evaluation for Conversion & Re-refining of Used Lubricating Oils to Base Oil	Roy Sushanta Kumar	Das B. , T. Kumar, S. K. Das
Production of Bioethanol from Sugarcane Bagasse in a Membrane - Integrated Hybrid System	Saha Koel	Dr. Jaya Sikder
Studies on the Treatment of Industrial Wastewater by Adsorption Technique using Palm-seed Charcoal as Adsorbent in an Inverse Fluidized Bed	Saikhel Karunya	Sarkar J.P Saikh Firoz
Study on management of pharmaceutical industrial waste water by AOP	Sarkar K.K	Mandal T.
Phycoremediation of Heavy Metals from Wastewater	Sen Sushovan	Dr. Susmita Dutta
Environmentally conscious manufacturing for Process Industries	Sen Parag	P.Pal & M.Roy
Pyrolysis of Plastic Waste for Recovery of Fuel and Value Added Products	Singh Rohit	Prof. P. Gupta, Dr. B Ruj Prof. A. K. Sadhukhan
Effective Treatment of Pharmaceutical Wastewater: New Membrane based Approaches	Thakura Ritwik	P.Pal
Treatment of Saline Water Pollutants by Solar Nano Photo Catalysts	Varghese M. J.	Dr. Susmita Dutta Professor S. Feroz

Topic	Investigator	Supervisor(s)
Department of Chemistry		
Modelling Biological Ni Sites with Supporting N, S Donor Ligands	Bhandari Anirban	Patra A. K.
Development of an Advanced Treatment Scheme for the Degradation of the Toxic Organics Associated with Pharmaceutical Wastewater	Chakraborty Sucharita	Saha R. N.
Evaluation of Arsenic Contamination in Groundwater, Soil, Vegetation through Food Chain and its Impact on the Environment	Chandra Sukanya	Saha R.N., Pal P.
Stabilization of Various Oxidation States of Ni [Ni(I), Ni(II), Ni(III) and Ni(IV)] With Designed Multidentate Ligands : Synthesis of Ni Complexes Relevant To The Ni-site of Ni-Fe Hydrogenase Enzyme	Chatterjee Sudip	Patra A. K.
Electron donor acceptor interactions involving coal derived asphaltenes in homogeneous and heterogeneous media: a spectroscopic study	Chaudhury Paromita	Panja S.S.
Design, structural characterization and catalytic activities of a few transition metal complexes with (N,N) & (N,O) donors sites	Chowdhury Biswajit	Milan Maji Bhaskar Biswas (Rahunathpur College)
Lipid and fatty acid analysis of different freshwater fishes under different cooking condition	Das Bastab	Chakrabarty J.
Synthesis structural characterisation and materialistic aspects of some transition metal complexes with (N,N) & (N,O) donors ligands	Das Subrata	Milan Maji Bhaskar Biswas (Rahunathpur College)
A MD Simulation study on the human Monoamine Oxidase structures and its complexes	Dasgupta Subrata	Mukhopadhyay B.P
Synthesis Characterization and Biocatalytic Activity of Some Transition Metal Complexes with Different polydentate chelators	De Abhranil	Milan Maji Bhaskar Biswas (Rahunathpur College)
Synthesis Characterization and Biocatalytic Activity of Some Transition Metal Complexes with Different Chelating Ligands	Dey Dhananjay	Milan Maji Bhaskar Biswas (Rahunathpur College)
Effect of some heterocyclic bases on the corrosion inhibition of mild steel in acid medium	Dutta Alokdut	Sukul D.
Treatment of wastewater generating from Textile industry by nano materials (nZVI), nano-Fenton's and UV radiation	Dutta Suvanka	Saha R. N. Bhaskar Biswas (Rahunathpur College)
Synthesis & catalytic aspects of a few transition metal complexes towards different organic transformations	Garai Mamoni	Milan Maji Bhaskar Biswas (Rahunathpur College)
Assessment of chemical and physico-chemical properties of micro and macro algal lipids for biodiesel production	Guha Thakurta Sohini	Chakrabarty J.

Topic	Investigator	Supervisor(s)
Isolation, Purification and Structural Characterization of Polysaccharides from Some Indian Fruits	Hazra Surajit	Adhikari U.
Copper Complexes and Their Reactivity Studies Relevant to Biological Copper Sites	Maji Ram Chandra	Patra, Apurba K.
A MD Simulation study on the human IMPDH structures and its complexes	Mishra Deepak K	Mukhopadhyay B.P
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 Ishani	Moi S. C.
Effect of exogenous phospholipids on sperm plasma membrane structure and function in relation with cryopreservation	Mondal Rajesh	Chakrabarty J. Maji M.
Study of some bioplymners as corrosion inhibitor of mild steel in acid medium	Pal Aparesh	Sukul D.
Treatment of wastewater generating from Chlor-alkali industry by advanced Oxidation Process	Pobi Krishnendu Kr.	Saha R. N.
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 Chinmoy	Chakrabarty J.
Isolation, Purification and Chemical Investigation of Polysaccharides from Citrullus lanatus and Syzygium samarangense	Roy Sumita	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 Avradeep	Moi S. C.
Development and study of Pyrene-based fluorescent sensors along with their applications	Sarkar Soma	Panja S.S.
Structure and Interaction Studies of some Nucleotide Molecules with the different Ligands by X - ray Crystallographic Methods	Sengupta Dhruba Kumar	Mukhopadhyay B. P. Das S. B.
Development of New Molecular Device for Sensing Physiologically Important Metal Ions	Sikdar Anindita	Panja S.S.
Synthesis of Low-Dimensional Transition Metal Oxides and the Study of Their Catalytic Activities for the Detoxification of Environmental Contaminanats	Thakur Indrani	Saha R. N., Sriparna Chatterjee
Department of Civil Engineering		
Bridge Health Monitoring and Strengthening	Lahiri, N.	Topdar P., Datta, A.K.
Characterization and development of Eco- Friendly concrete using Industrial Waste –Research Methodology Presentation	Rajesh Kumar, S.	Dr. Amiya K. Samanta. & Prof. Dilip K Singha Roy

Topic	Investigator	Supervisor(s)
Effect of high speed train induced vibration on adjacent structures	Mukherjee, R	Datta, A.K., Topdar P.,
Effects of friction on sliding failure of concrete gravity dams under dynamic condition	Sinha, S.	Datta, A.K., Topdar P.,
Fragility analysis of concrete gravity dam under different loading conditions	Roy, P.	Datta, A.K.
Hybrid Control of Bridges subjected to seismic ground motions	Neethu, B.	Das, Diptesh.
Modelling and Analysis of Fexural Strength of Reinforced Concrete Beams with Corrugated Glass Fibre Reinforced Polymer Composites	Aravind, N.	Dr. Amiya K. Samanta, Prof. D. K. Singha Roy & Dr. Joseph V. Thanikal
Numerical Modelling of highway pavements under dynamic conditions	Banerjee, A.	Topdar P., Datta, A.K.
Performance Study of Asymmetric Structures under Static & Dynamic Loads	Das, D. Prasad	Diptesh Das Pijush Topdar
Seismic Behaviour of RCC Joints	Sinha, B.	Datta, A.K., Topdar P.,
Structural Investigation using Acoustic emission technique	Sengupta, S.	Datta, A.K., Topdar P.,
Thermo-Mechanical Effect on Sustainable Concrete using Industrial waste	Sahani, Ashok Kr.	Dr. Amiya K. Samanta. & Prof. Dilip K Singha Roy
A Study of Progressive Collapse of Steel Frames subjected to Explosion and Post Explosion Fire	Mohamed Galal	Dr. A K Banik
Coupled Nonlinear Analysis of Offshore Floating Structures	Shovan Roy	Dr. A K Banik
Department of Computer Applications		
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
Ontology Driven Domain Specific Software Design	Banerjee S	Sarkar A
Modeling of Multi Agent System Dynamics	Chatterjee R K	Sarkar A
Transaction Management Framework for Semi Structured Database System	Ganguly R	Sarkar A
Analysis and Specification of an Inter-Cloud Architecture: An Abstraction Model	Khan G	Sarkar A Sengupta S (BPPIMT, Kolkata)
Functional Specification of Software as a Service for Data Centric Cloud Applications	Mandal AK	Sarkar A
Cloud Computing Security Issues	Mandal K K	Das S
Indian Terrorism in the Globalized Era: Role of Social & Technological Factors	Bhaumik S V	Das S , Sengupta P P, Sengupta A

Topic	Investigator	Supervisor(s)
Swarm Intelligence for Area Estimation of Dynamic Oil Spills Using UAVs	Banerjee A	Das S , Ghosh D N
Cloud Computing Security	Kumar S	Das S
Digital Forensics for eGovernance	Kumar S	Das S
Department of Computer Science and Engineering		
(Thesis submitted)	Sujit Das	Pal. T., Kar, S.
A Hierarchical Set of Super Classifier for Fast Individual Facial Expression Identification	Dhananjay Bhakta	Sarker, G.
A Set of Super-Classifier Combination for Efficient Biometric Identification	Sumana Kundu	Sarker, G.
A Study on Some Routing, Energy and Security Issues Concerning The Delay Tolerant Network	Priyanka Das	De, T.
Applications of Wireless Sensor Networks	Santanu Mandal	De, T.
Cellular Automata based test for Memristors	Avik Mitra	Dalui, M.
Cohort Selection for Biometrics Authentication	Jogendra Garain	Kisku, D.R., Sanyal, G.
Computational Geometry	Sanjib Sadhu	Roy, S., Nandy, S.C. (ISI Kolkata), Roy, S. (ISI Kolkata)
Designing Neural Network Algorithms For Better Performance Analysis	Prasenjit Dey	Pal, T.
Detection and Mitigation of DDOS Attack	Khundrakpam Johnson Singh	De, T.
Efficient Communication between Optical and Wireless Hybrid Networks	Naik Deepa	De, T.
EHD Inkjet Printing	Amit Kumar Ball	Kisku, D.R., Murmu, N.C. (CMERI), Roy, S.S.
Face Attention Identification	Ravi Kant Kumar	Kisku, D.R., Sanyal, G.
Face Frontalization	Dipak Kumar	Kisku, D.R.
Face Identification	Rinku Datta Rakshit	Kisku, D.R.
Face Image Annotation and Clustering	Srinibas Rana	Kisku, D.R.
Manipuri Offline Signature Verification	Teressa Longjam	Kisku, D.R.
Multicast Traffic Grooming in Elastic Optical Networks	Panchali Datta Choudhury	De, T.
Network Optimization using Evolutionary Algorithms	Joydeep Dutta	De, T. Kar, S. (Mathematics, NIT DGP)
Object Tracking and Pattern Matching	Deep Suman Dev	Kisku, D.R.

Topic	Investigator	Supervisor(s)
Placement Solutions for FPGA Architectures	Suchandra Bannerjee	Roy, S.
Power Aware Techniques and Analysis in High level synthesis of VLSI Circuits	Khushbu Chandrakar	Roy, S.
Reconfigurable computing in QCA	Mrinal Goswami	Sen, B.
Routing and QoS analysis in Wireless Body Area Network with Coexistence of WIFI	Prajna Paramita Pradhan	Bhattacharjee, S.
SAT Based Steiner Tree Generation for VLSI Applications	Sudeshna Kundu	Roy, S.
Solution of Economic Load Dispatch and Hydro-thermal Scheduling using Soft Computing Techniques	Moumita Pradhan	Pal, T., Roy, P.
Some Network Optimization Model Under Diverse Uncertain Environments.	Saibal Majumder	Pal, T., Kar, S.
Some Optimization Technique Problems On Fuzzy Graph	Arindam Dey	Pal, T., Pal, A.
Some Soft Computing Methods For Decision Making Problems In Uncertain Paradigm.	Mahyua B. Kar	Pal, T., Maiti, M.
Some Studies on Smart Vehicular Network	Rangaballav Pradhan	De, T.
Studies on Multicast Routing and Wavelength Assignment in WDM Optical Networks	Barat, Subhendu	De, T.
Testing and Verification for FPGA Architectures	Shukla Banik	Roy, S.
Travelling Salesman Problems in Different Environments Using Hybrid Heuristic Algorithms	Aditi Khanra	Pal, T., Maiti, M.K., Maiti, M.
Department of Electrical Engineering		
Some Aspects on Dynamics and Control of Switch Mode Power Converters.	Ghosh Arnab	Banerjee S
Load Frequency Control of Non-linear Controller based multi-area Power System Network using various Evolutionary Algorithms.	Guha Dipayan	Banerjee S
Some Studies on Control and Modulation Strategies of Multilevel Converters Applicable for Drives and Photovoltaic's Applications	Giri Santu Kumar	Banerjee S C Chakraborty
Chaos and Periodicity in Solar Wind Speed	Sarkar Tushnik	Banerjee S Khondekar H M
Power Electronic application in power system.	Mazumder Kingshuk	Banerjee S Roy P
Robust Control of Mimo systems	Pandey Sumit	Banerjee S Dey J
Application of Multilevel Converters in Electrical Vehicles	Mukherjee Sarbani	Banerjee S Saha S
PID Controller Tuning of Load Frequency Control using Soft Computing Technique	Pain Santigopal	Acharjee P.

Topic	Investigator	Supervisor(s)
Optimal placement and sizing of facts devices and distributed generation in power system	Roy Ghatak Sriparna	Acharjee P.
PMU Placement using soft-computing techniques, post-mortem analysis and state estimation with PMU data	Maji Tapas Kumar	Acharjee P.
CTLI based Stand Alone and Grid Connected PV Systems	Kumar Nayan	Saha T. K. Dey J.
Advanced Control and Development of Observer for Induction Machine Drives	Swargiary Manoj	Dey J. Saha T. K.
Control of Distributed Generation Systems	Mishra Rupa	Saha T. K.
Control of Stand Alone Drives from PV Systems	Ghosh Sourav	Saha T. K.
Modelling and Simulation of Antigen Antibody interactions	Sarkar Payel	Halder S.
Analysis of bio-potentials linked with various physiological regulations	Das Ashis Kumar	Halder S.
Analysis and Modelling of various toxic gas sensors	Mondal Reetam	HALDER S. DEY j.
Investigation on nonlinearities linked with lipid metabolism	Mukherjee Mithu	HALDER S.
Department of Electronics and Communication Engineering		
Design of Microstrip Antennas	Acharjee J	Mandal, S. K Mandal, K (IRPE, CU)
Synthesis of Hybrid Antenna Arrays using Evolutionary Optimization Techniques	Bera Rajesh	Mandal D Kar R Ghoshal S. P
Cognitive Radio Networks with Efficient Spectrum Sensing and Sand energy harvesting (Thesis submitted in Dec2015)	Bhowmick Abhijit.	Dhar Roy, S Kundu, S
Cognitive Radio Networks with Efficient Spectrum Sensing and Sand energy harvesting (Thesis submitted in Dec2015)	Bhowmick Abhijit.	Dhar Roy, S Kundu, S
Enhancing energy efficiency of 802.15.4 networks using relays	Biswas Sankalita	Chandra, A and Dhar Roy, S
Study of mutual coupling and scan blindness in antenna arrays	Biswas Susmita	Mandal , D Ghosh, C. Kr.
Novel Techniques in Output Pattern Optimization of Microwave Antennas & Filters	Chakravorty Pragnan	Mandal ,D
Antenna Array Optimization Considering the Mutual Coupling Effect Using Evolutionary Optimization Techniques	Das Avishek	Mandal ,D Kar , R
Study on Performance Improvement of Antenna Array Architectures using Evolutionary Optimization Algorithms	Das Sudipta	Mandal ,D Kar , R Ghoshal S. P

Topic	Investigator	Supervisor(s)
Optimal Design of VLSI Circuits using Evolutionary Optimization Techniques	De Bishnu Prasad	Kar , R Mandal ,D Ghoshal S. P
Relay node placement for maximizing energy efficiency in wireless networks	Ghosh Biswajit	Chandra, A. and Mal, A.K.
Evolutionary Optimization based Radiation Pattern Synthesis of Antenna Arrays With and Without Time Modulation	Gopi Ram	Mandal ,D Kar , R Ghoshal S. P
Studies on Planar Ultrawideband and Superwideband Antennas for Emerging Wireless Systems Applicability	Gorai Abhik	Ghatak ,R and Pal, Manimala (NSHM Knowledge Campus Durgapur)
Multiband Microstrip Antennas	Goswami S	Mandal, S. K. Mandal, K. (IRPE, CU)
VLSI Circuit Design	Maji Kanchan Baran	Kar , R Ghoshal S. P
Uncoordinated cooperative communication schemes with security enhanced energy efficient relays.	Maji Pranabesh	Dhar Roy, S Kundu, S.
Resistive memory devices	Maji S	Mahapatra, R
Energy Harvesting in Cooperative Cognitive radio networks	Mandal Soumen	Dhar Roy, S Kundu S.
Device to Device Communication in Cellular cognitive Netwroks	Mitra Debjani	Dhar Roy, S Kundu S.
Antenna Array Optimization using Evolutionary Algorithms	Mukherjee A	Mandal, S.K. Ghatak, R.
Graphene based materials for sensing application	Pal H	Mahapatra, R Chatterjee ,S
Efficient Non-linear system identification schemes using evolutionary optimization techniques	Pal Parth Sarathi	Kar , R Mandal ,D Ghoshal S. P
Power Pattern Synthesis of Antenna Arrays through Time-Modulation	Patra S	Mandal, S.K. Mahanti, G. K. Pathak, N. N. (B. C. Roy Engg. College, Durgapur)
Studies on Spectrum Sharing in Cognitive Radio Networks in Presence of Fading	Prasad Binod.	Dhar Roy, S., Kundu, S.
Various effects of substrates in the design of Microstrip Antennas and their Applications	Roy Bappadittya	Bhattacharjee.A.K Chowdhury.S.K (JU Kolkata)
Analytical modelling of advanced MOSFET devices	Sahoo J	Mahapatra R
Adiabatic logic circuits	Samanta S	Mahapatra R Mal A K

Topic	Investigator	Supervisor(s)
Design of Micro-chip for osteoblast cell characterization	Sarkar S	Mahapatra R Ghose M
Physical layer security in Cognitive radio networks with energy harvesting	Sharma Sashibhushan	Kundu S
Microstrip Antennas for Bio-Telemetry Application	Singh H	Mandal, S. K. Mandal, K. (IRPE, CU)
Gas Sensors	Sinha M	Mahapatra R & Ghose R
Optimal Digital IIR Filter Design using Evolutionary Optimization Techniques	Upadhyay Prashant	Kar , R Mandal ,D Ghoshal S. P
Efficient Spectrum Utilization for Cognitive Radio Network (CRN) with Distributed Detection in Spectrum Sensing	Yadav Kuldeep	Dhar Roy, S., Kundu S.
Department of Earth and Environmental Study		
GIS based land resource evaluation and management for agricultural sustainability in an affected area of coal-fired thermal power plant.	Adak Subhas	Adhikari K. Brahmachari K.
Impact of chemical pesticides and fertilizers on the environment as a whole – A case study	Adhikary Mayukh	Gangopadhyay A. Bramhachari K.
Groundwater occurrence and quality assessment in north-western and north-eastern part of Bankura district, West Bengal	Bajpayee Swastika	Adhikari K. Chatterjee P. K. Ruj B.
Reappraisal of the depositional setting of Upper Barakar coal beaing strata from Raniganj Basin, India- a sedimentological, ichnological and coal petrographic approach	Banerjee Sudipto	Adhikari K. Bandyopadhyay S.
A comprehensive study on Environmental Management System (EMS) as practiced in selected industries in West Bengal, India and its impact on society	Ghosh Bipasha Mridha	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 Subhobrata	K. Adhikari S. Mahapatra D. S. Mitra
Development of filter media and system for high temperature applications	Nayak Sisir Kumar	K. Adhikari S. Datta
Removal of fluoride from aqueous solution using modified low cost materials.	Rakesh Kumar	S. Mondal
The Tectonics of Eastern Segment of Delhi Fold Belt, Southeast of Beawar, Rajasthan.	Saha Pinaki	A. Gangopadhyay D. Mukhopadhyay
Analysis of potential impacts of open cast coal mine on hydrogeological dynamics in Barjora Area, West Bengal, India.	Ujjal Mal	K. Adhikari

Topic	Investigator	Supervisor(s)
Department of Humanities and Social Sciences		
Foreign Direct Investment, International Trade and Economic Growth	Sinha, Madhabendra	Sengupta, P. P.
A study of Social ,Economic and health condition of Assamese migrant labourers in Kerala	Dutta, U. P.	Sengupta, P. P
Business Regulation in Respect of Consumer welfare-Consumer Protection in India, related to Marketing	Agasti, S.	Sengupta, P. P
Knowledge Management and human capital formation: A case of NIT's	Mukherjee, U.	Sengupta, P. P
Attitude towards Assisted Reproductive Technology	Lal, S.	Sengupta, P. P
Trend of FDI	Veena, T	Sengupta, P. P
Mythological Study of Select Indian English Fiction	Banerjee, Sanjukta	Rai, S.K.
Roberto Classo's Ka: A Critical Study	Bhattacharyya, Saurav	Rai, S.K.
Whose Power is Perpetuated at the Expense of Whom: An Exploration into the Linguistic Function of Bangla Proverbs in Depicting Gender Differences	Bhunia Chakraborty, Aditi	Modak, A.
Exploration of Parsi culture, Rituals, Rites and their Nostalgia: A Study of Deena Mehta, Perin Barucha, Boman Desai and Farrukh Dhondy	Biswas Ujjwal	Banerjee, J.
Thematic Study of Contemporary Indian English Poets	Karmakar, Gautam	Rai, S.K.
Postmodern Elements in T. S. Eliot's Poetry	Mandal, Annesha	Modak, A.
Professional Development for Teachers of English: Implications and Practices	Mondal, Dibyendu	Modak, A.
DISCERNING THE FAMILIAR - An insight into the women's condition during the Taliban Regime	Mukherjee Marjana	Banerjee, J.
Post humanism and Trans humanism in the 21st Century Dystopian Novels	Patra, Indrajit	Rai, S.K.
RAINBOW RISING: NOVELS FROM NORTH-EAST INDIA.	Paul, A. S.	Rai, S.K.
Survival as Triumph in Paul Auster's Novels	Pramanik, Avijit	Modak, A.
The Fictions of Amit Chaudhuri: Creation of a Tradition	Roy Arnab	Banerjee, J.
Neo-colonial undertones in Arundhati Roy and Jhumpa Lahiri	Roy SandipGuha	Banerjee, J.
The Theater of Protest: A Critical and Comparative Study of the Selected Plays of Vijay Tendulkar and Utpal Dutt	Roy, Oliva	Banerjee, J.
Voices of the Margin:A feministic reading of the diasporic demarcation and minority discourse in the works of Chitra Banerjee Divakaruni	Sengupta, Debalina	Banerjee, J.
A Postcolonial Study of the Poetry of Derek Walcott	Sengupta, Tuhin	Rai, S.K.
An Approach for distributed ontology alignment	Adhikari, A.	Dutta, A.
Bio-medical image analysis	Agarwala, S.	Nandi, D.

Topic	Investigator	Supervisor(s)
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, S.K.	Nandi, D.
Deep learning in computer vision	Chakraborty, T.	Nandi, D.
Agent technology and algorithms	Changdar, N.	Dutta, A.
An efficient service oriented middleware for SOC in mobile AdHoc network	Choudhury, B.	Choudhury, S. Dutta, A.
Spectrum treading for cognitive radio in static and dynamic environments	Chowdhury, A.B.	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.
Brain MRI segmentation	Ghoshal, P.	Nandi, D.
Sparse based image enhancement	Kumar, A.	Nandi, D.
Image reconstruction, enhancement and multiplicative noise reduction using sparse image processing	Maiti, S.	Nandi, D.
Application of microwaves in biomedicine	Mandal, M.	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.
Auction aware healthcare	Singh V. K.	Mukhopadhyay, S.
Department of Management Studies		
A study of evolution, growth and decline of small brands of apparels in India	Arora Naveen	Baneerjee Neelotpaul
Developing a Model for Better Utilization of Hospital Resources	Bandyopadhyay Soumendranath	Dutta Avijan Bandopadhyay Gautam Sanyal gautam
A Study on Predictability of Stock Returns and Behavioral Biases	Banerjee A.	De A., Bandyopadhyay, G.

Topic	Investigator	Supervisor(s)
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.
An Empirical Investigation Of Credit Rating Of Debt Instruments Of Private Sector Undertakings In INDIA	Banerjee Sanbad	Bandyopadhyay, G.
A Quest for Relationship among CSR, Marketing Activities and Business Performance: A Cross Industry Comparison on Indian Firm	Banerjee Sujata	Mandal K.
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.
Production Management through Optimisation Strategy	Basu S	Roy, M
The Market Impact of Corporate News Release: Indian evidence	Bhattacharjee N.	De A.
Role of Mental Accounting in Influencing Investing and Consumption Decision of Indian Investors: A Study of Behavioural Finance	Bhattacharyya S. R.	De A.
Green Marketing Management in a Developing Economy	Biswas A	Roy, M
A Study on Workplace Adaptability: An Indian Perspective	Bose Sujata.	Pal D.
Sustainable Development in Educational Institutions	Chakraborty, A	Roy, M
Wavelet Based Multi-Horizon Investment Analysis in an Economy Dominated by Heterogeneous Agents	Chakrabarty, A	De A.
Investigating and Forecasting the financial Performance and Operational Efficiency of Indian Paint and allied Industry	Chakraborty S	Bandyopadhyay G
A quest for relationship among socio-demographic variables and various facets of sales promotion	Chel Saswati	Mandal K.
Understanding Various Facets of Purchase Involvement; A Study of Burdwan , WB	Dasgupta (Banerjee) Monami	Mandal K.
Developing strategies and algorithm for multicasting over optical burst switched networks to enhance Economic value for end users through QOS policies	Datta Subhasis	Dutta Avijan Choudhury. Subhrabrata
Information & Communication Technology and E-Business Support for Indian MSMES	Gayen Anupam	Roy, M
Attitude of Indian young generation towards online marketing	Ghosh Debasis	Baneerjee Neelotpaul
Frauds in Public Sector Banks of India: A Study to Find out the Factors and Impact	Ghosh S.K.	De A.
Forecasting of Scenario of Indian Financial Market		
using operations Research Technique	Guha, B	Bandyopadhyay G

Topic	Investigator	Supervisor(s)
Relationship between Banking Insurance and Economic growth in India	Kaushal Shrutikeeti	Ghosh Amlan
The Mediating Role of Mental Accounting between Financial Cognitive Process and Personal Financial Planning: A Study With Respect to Indian Retail Investors	Mahapatra M. S.	De A., Raveendran J.
An Empirical Quest for Various Aspects of Brand Switching	Maji S	Bandyopadhyay G
The Influence of Corporate Culture on Organisational Commitment-Evidence from Selective Hospitality Industry In India	Mitra M	Bandyopadhyay G
Stress in police personnel: A study of the occurrences, consequences within West Bengal Police Service and coping up strategies	Majumdar Nandi Malini	Dutta Avijan
Determinants of Property Liability Insurance market in post-reform era and its relationship with economic growth in India	Mukherjee Abhijit	Ghosh Amlan
An empirical study on the impact of social media to facilitate the effectiveness of marketing	Mukherjee, Kaustav	Baneerjee Neelotpaul
A study on various aspects of consumer behavior in context to different products and services –A comparison between consumers in India and USA	Samanta Jyotirmoy	Baneerjee Neelotpaul
Dynamics of Operation & Management of selected polluting industries	Sarkar Sreemanta	Roy, M
Sustainable Management Strategies for small scale industries	Singh M.P.	Roy, M
An empirical analysis on various facets of celebrity endorsements in Indian context	Singh, Ramendra Pratap	Baneerjee Neelotpaul
Psychological contract and its relevance to Employment Relationship	Thomas Anitha	Dutta Avijan
Department of Mathematics		
Newsvendor Problems in uncertain environments	Adhikari, K.	Kar, S.
The Design of Sustainable Green Supply Chain in Managing Electronic Waste	Bandopadhyay Anil	Pal, A., Das, P. K.
Dynamical Risk Analysis in Complex Environmental Matrices	Bandyopadhyay, A.	Kar, S.
Nonlinear waves in dusty and quantum plasma	Banerjee, Gadadhar	Maitra. S
Some fuzzy inference techniques and their applications to different fields	Basak, Sanghamitra	Panigrahi G , Jana D, Maiti M
Some Transportation Problems in Different Imprecise Environments	Bhowmik, Sarbari	Panigrahi G , Jana D, Maiti M
Fixed point theory and Topology	Chanda, Ankush	Dey, L.K.

Topic	Investigator	Supervisor(s)
Decision making problem with uncertainty in optimization framework	Chatterjee, A	Kar, S.
Supply chain risk assessment and its management	Chatterjee, K.	Kar, S.
Application of Statistical Methods for Determination of Key Factors for Project Implementation	Chowdhury, Angshuman	S.Sarkar (Mondal)
Cryptography	Das, D.	Basu, K.
Some Bio-Mathematical Models In Crisp and Uncertain Environments	De, Anupam	Panigrahi G, MaityKalipada , ManoranjanMaiti
A Study of Some New Topological Indices of Graphs	De, Nilanjan	Pal, A., Nayeem, S.M.A.
Modelling on CSR with bureaucracy	Debnath, A.	Kar, S.
Some Optimization Problems on Fuzzy Graphs	Dey, Arindam	Pal, A., Pal, T.
Application of Fuzzy Mapping in different Real Life Problems	Ghosh, Dhrubojyoti	Pal, A.
Magnetoconvective instabilities in liquid metals	Ghosh, Manojit	Pal, P.
Labelling of graphs and Hypergraphs	Ghosh, Poulomi	Pal, A.
Graph labelling and its applications	Ghosh, Sumonta	Pal, A.
Assignment problem in fuzzy environment	Kar, S.	Basu, K.
Topological fixed point theory	Karmakar, Surajit	Dey, L.K.
Some Inventory Models for deteriorating/Breakable Items In Different Environment	Kundu, Anindita	Panigrahi G, Das B, Maiti M
Optimal synchronization in complex networks	Kundu, Prosenjit	Pal, P.
Stochasticticity in ecology and epidemiology	Kundu, S	Maitra. S
Neutrosophic sets & fuzzy system	Mandal, K.	Basu, K.
Application of Optimization Techniques on Coal Mines Selection	Mandal, Satya	S.Sarkar (Mondal)
Data Mining Techniques for social network analysis	Mandal, Shrabanti	Pal, A.
A study on fuzzy graphs and interval valued fuzzy graph	Mishra, SachchidaNand	Pal, A.
Integration theory	Mondal, Pratikshan	Dey, L.K.
Best proximity theory	Mondal, Saranan	Dey, L.K.
RFID Systems: Security and Privacy	Mourya, P. K.	Bagchi, S.
On Some NP hard problems Using Heuristic Method	Mukherjee, Anupam	Panigrahi G, MaitiManoranjan
Auction Adaptive participatory Sensing	Mukhopadhyay, Jaya	Pal, A.
Collective phenomena in coupled oscillators	Nandan, Mauparna	Pal, P.
Routes to chaos in Rayleigh-Bénard convection	Nandukumar, Yada	Pal, P.

Topic	Investigator	Supervisor(s)
Applications of RFID on Telecare Medicine Information System to Enhance Patients Safety	Pal, Joydeb	Bagchi, S.
Time Series Forecasting using Soft Computing Techniques	Pal, S. S.	Kar, S.
Optimal Control Problems in Uncertain Environments	Roul, J.N.	Kar, S.
Multi-criteria and Multi-objective decision making problems	Roy, J.	Kar, S.
Reliability optimization	Samanta, A.	Basu, K.
Fixed point theory	Senapati, Tanusri	Dey, L.K.
Restricted domination problems on graphs	Sinha, Angshukumar	Pal, A.,
Department of Mechanical Engineering		
Optimisation in Assembly Line Balancing Problem	Adhwarjee D. K.	Majumder M. C., Banerjee N.
Investigative study of 'Stirling Engine' based Solar Thermal Power Generation	Azad M. S.	A. Layek
Modeling of Flow Forming Process	Banerjee Prabas.	Hui N. B.
Investigation on Geometry and Size Effects in Micro-EDM	Barman S.	Puri A.B. Nagahanumaiah (CMERI)
Analysis of bimodular composite material laminated sandwich plate	Chell G. C.	Khan K.
Multi Echelon Inventory Management	Das Debabrata	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 A.B. Dr. Atanu Maity (CMERI)
Numerical Investigation of Micro-scale Fluid Flow and Heat Transfer	Dutta S.	Pramanik, S.
Investigation on fluid flow and heat transfer of solar air heater having artificially roughened absorber plate	Gharai S. K.	A. Layek
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 C.I. engine using different biodiesel blends.	Kathirvel S.	A. Layek
An investigation on the design of continuous casting mould	Kaushik Ray	Basak I
Analysis of bimodular composite material laminated curved beam	Kumar A.	Khan K.

Topic	Investigator	Supervisor(s)
Performance analysis of solar air heater having artificial roughness	Kumar Anup	A. Layek
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.
Combined nanoindentation and FEM on elasto-plastic solids	Porwal D.	Khan K. Dey A (ISRO,Bangalore)
Coordinated Navigation of Multiple Wheeled Robots	Pradhan Buddhadeb	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 Ashish	Hui N. B. Chattapadhyay S. (Nationwide)
Performance Evaluation and Simulation of an Aero Engine Compressor Shrouded Blade	Vinayaka N.	Banerjee N., B.S. Ajay Kumar (BIT, Bangalore)
Department of Metallurgical and Materials Engineering		
Synthesis and characterization of metallic glass matrix composite	Maity Shubhadeep	Bera S. & Show B.K.
Application of carbon nano-composites in dye sensitized solar cells	Sarkar A.	Bera S. & Chakraborty A. (Physics)
Mechanism of microstructural modification and subsequent improvement in properties by semi-solid heat treatment of some non-ferrous alloys.	Bandyopadhyay Biswarup	Bhattacharya A. Mallik Manab
Structure-property correlation on ZrB2 based ultrahigh temperature ceramic composites.	Paul Tanay Rudra	Mallik Manab Mondal M. K
Transient liquid phase diffusion bonding of aluminium based metal matrix composites	Roy Pallab	Pal T.K. (Jadavpur University) & Dr. Maity J.
Development of high strength ductile steels by cyclic heat treatment involving reconstructive and displacive phase transformations	Mishra Alok	Maity J.

Topic	Investigator	Supervisor(s)
Development of aluminium based metal matrix composite systems with hybrid reinforcements processed through powder metallurgy route and comparative study of their properties	Saha Samata	Ghosh Manojit (BESU, Shibpur) & Maity J.
Design and Development of Highly Efficient Water and Ethylene Based Nanofluids Containing Cu-Ag Alloy Nanoparticles for Advanced Heat Transfer Applications	Das Sujoy	Ghosh M. M.
Multiscale Model Based Design and Development of Copper Based Nanocomposites with Alloy Nanoparticles Reinforcement for Applications in the Advanced Electronic Devices	Bandyopadhyay Krishnan	Ghosh M. M. & Prof. 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 Dhiman Kumar	Ghosh M. M.
Microstructural, Mechanical and Electrochemical Behaviour of High Alloy Chromium Cast Irons	Mondal Siddhartha Sankar	Mondal D. K. & Ghosh K. S.
Assessment of Microstructural, Mechanical and Electrochemical Behaviour of Various Dental Amalgams of Various States	Dutta (Chowdhury) Nivedita	Ghosh K. S.
Assessment of structure -high strain rate deformation behaviour of Materials	Acharya Saikat	Ghosh K.S. and Mondal D. K.
Development of high strength wear resistant low carbon steel by cyclic heat treatment	Subhani Amir Raza	Maity J. & Mondal D. K.
Al alloy, Semi solid processing	Choudhary Chandan	Mandal D. & Sahoo K.L (CSIR-NML, Jamshedpur)
Composite materials, micro level simulation	Biswas Prasanta	Mondal M.K. & Mandal D.
Corrosion and Nanomaterials	Kar Palas	Ghosh K.S.
Detailed study on tribological behaviour of different Al-Si alloys (Tentative)	Hazra Biplab	Show B.K.
Physical Met. and corrosion Engg.	Jaiswal Arvind Kumar	Maji B. & Maity J.
Department of Physics		
Phenomenology of Z' Boson, B Meson Systems 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 Subrata	Kumbhakar P.

Topic	Investigator	Supervisor(s)
Carbon nanotubes and graphene based metal oxide composites for supercapacitors	Chakrabarty Nilanjan	Chakraborty A.K.
TiO2-SiOx-TiO2 based optical detector	Choudhuri Bijit	Mondal A. Saha A. (Math, NIT Agartala)
Interface and load transfer in carbon nanoparticle based epoxy nanocomposites	Chakraborty Souvik	Chakraborty A.K. & Barbezat, M (EMPA, Switzerland)
Reliability prediction studies of lead free solder joint interface used in electronics & microelectronics applications	Char Monalisa	Chakraborty A.K.& Kar, A (JBNSTS)
Fabrication & characterization of Graphene based gas sensors	Chatterjee Shyamasree Gupta	Chakraborty A.K.& Roy, A (SMIT)
Synthesis of Polymer Nanocomposites and its Electrical Magnetic And optical Properties	Choudhury Somnath	Meikap A.K. Mandal M.K.
Development and Characterization of Polymer-Nanocomposites for Enhanced Dielectric Properties	Das A. K.	Meikap A.K
Studies on Rare Earth Material doped ConductingThin Films and theirOptoelectronic Properties	Ghosh Anupam	Mondal A.
Some Alternative Studies for Developing Ultra-fast all Optical Signal Processors using Optical Nonlinear Materials	Ghosh Parimal	Kumbhakar P.& Biswajit Sen (Vidyasagar Teacher's Training College,Midnapore)
Investigations on multi-parametric and multi-station based geochemical precursors for Earthquakes	Gupta Tapapriya	Chaudhuri H
Optical and Electrical Properties of Polymer-Nanocomposites	Goswami M.	Meikap A.K.
R. Ghosh		
Optical Properties of Metals Nanoparticles, Thin Films and Application	Karmakar Srikanta	Kumbhakar P.
Phenomenology of Z' Boson, B Mesons and Higgs Boson	Kumar Manish	Sahoo S.
Optical Properties of Semiconductor Materials and Its Thin Films and Investigation on their Photo-catalytic properties	Kumbhakar Partha	Kumbhakar P.
Development of epoxy nanocomposites reinforced with graphene nanoplatelets	Manna Chandan Kr.	Chakraborty A.K.
Study on geothermal activities by experimental techniques and nonlinear approaches	Maji Chiranjit	Chaudhuri H
Preparation and characterization of advanced polymer composites with carbon nanostructures	Meriga Venkanna	Chakraborty A.K.

Topic	Investigator	Supervisor(s)
Photocatalysis studies of some nanocomposites based on graphene	Mondal Sujata	Chakraborty A.K. Basu S.
Electrical Transport Properties of Inorganic and Organic-Inorganic Nanocomposites	Mukherjee P. S.	Meikap A.K
Studies on Ag nanoparticles designed TiO2 nanowire based photodetector and effects of substrate	Ngangbam C	Mondal A Deb S (EE, NIT Agartala)
Microstructure, Electrical and Optical Characterization of Some Industrial Nanocrystalline Materials Synthesized By High Energy Ball Milling	Saha Sourav	Meikap A.K. Pradhan S.K. (Physics, Burdwan University)
Application of Carbon Nanostructures in dye sensitized solar cells.	Sarkar Aatreyee	Chakraborty A.K. Bera, S. (MME)
Detection of partial discharge in high voltage equipment using Fiber-optic sensor	Sarkar Badal	Roy N.K., (NITD, EE) Kole C. (NITD, EE) Kumbhakar P.
Application of TiO2 nanoparticles in optoelectronics & bio medical field	Chakrabartty S	Mondal A. Saha A. K.(NIT Agartala)
Properties of Indium doped TiO2 & application in optoelectronics	Sarkar MB	Mondal A. Bhattacharya P.(Math, NIT Agartala)
A study on electrical transport properties of some rare earth chromate nanocomposites	Sinha R.	Meikap A.K Basu S.

Annexure–11.4(h) i. Ph.D. degree awarded till 2015-16

Name of Department	nvestigator	Supervisor(s)
Biotechnology	Dr. H. R.Bairagya	Dr. B. P.Mukhopadhyay
Biotechnology	Dr. B. Bhunia	Dr. A.Dey
Biotechnology	Dr. B. Basak	Dr. A.Dey
Biotechnology	Dr. S.Chakraborty	Dr. A.Dey
Biotechnology	Dr. G. Goswami	Dr. D. Dutta & Dr. S. Chaudhuri
Biotechnology	Dr. N.Sarkar	Dr. K. Aikat
Biotechnology	Dr. R. Das	Dr. Kazy S. K.
Biotechnology	Dr. A. Ganguly	Dr. A.Dey Dr. P.K. Chatterjee (CMERI Durgapur)
Biotechnology	Dr. N. Gupta	Dr. S.Chattopadhyay
Biotechnology	Dr. P. Kumar	Dr. D. Dutta & Dr. S. Chaudhuri
Dr. S. Chaudhuri		
Biotechnology	Dr. J P. Maurya	Dr. S.Chattopadhyay
Biotechnology	Dr. V. Singh	Dr. S.Chattopadhyay and A. Nandi (SLS, JNU)
Biotechnology	Dr. S. Mondal	Dr. A.Dey , Dr. S.S.Mukhopadhyay, and Dr. B.Mondal (CMERI, Durgapur)
Biotechnology	Dr. P. Verma	Dr. Kazy S. K. Dr. A. Suman (IARI, New Delhi)
Chemical Engineering	Dr. S. Mukherjee	Dr. A.P. Sinha
Chemical Engineering	Dr. S.K. Dutta	Dr. A.P. Sinha
Chemical Engineering	Dr. S.K.Lahiri	Dr. K.C. Ghanta
Chemical Engineering	Dr. M.K.Karmakar	Dr. Haldar S. Dr. A. B.Dutta (CMERI)
Chemical Engineering	Dr. Sen M.	Dr. P. Pal
Chemical Engineering	Dr. A.K.Sadhukhan	Dr. P. Gupta Dr. R. K. Saha (IIT Kharagpur)
Chemical Engineering	Dr. A.K. Manna	Dr. P. Pal
Chemical Engineering	Dr. J. Sikder	Dr. P. Pal & Dr. J.P. Sarker
Chemical Engineering	Dr. R. Kumar	Dr. P. Pal
Chemical Engineering	Dr. R.N. Krishnaraj	Dr. P. Pal, Dr. S.Chandran & Dr. S.Berchmans (CSIR-CECRI)
Chemical Engineering	Dr. P. Dey	Dr. P. Pal
Chemical Engineering	Dr. Saswata G.	Prof. T. Mandal
Chemical Engineering	Dr.A. Bhattacharyya	Dr. S. Dutta Dr. S. Basu, HIT Kolkata

Name of Department	nvestigator	Supervisor(s)
Chemical Engineering	Dr. D. Mukhopadhyay	Dr. J.P. Sarker Dr. S. Dutta
Chemical Engineering	Dr. K. Arnab	Dr. S. Paruya
Chemical Engineering	Dr. G. Nababithi	Dr.S. Paruya
Chemical Engineering	Dr.D. Mukhopadhyay	Dr. J.P. Sarkar
Chemistry	Dr. M. Banerjee	Dr. R. S. Konar
Chemistry	Dr. S. Chatterjee	Dr. R. S. Konar
Chemistry	Dr. B. R. Guha	Dr. S. N. Banerjee
Chemistry	Dr. S. Basu	Dr. S. N. Banerjee
Chemistry	Dr. U. Satpathi	Dr. R. S. Konar
Chemistry	Dr. P. K. Banerjee	Dr. S. N. Banerjee
Chemistry	Dr. S. Saha	Dr. N. Kurmaiah
Chemistry	Dr. V. K. Soi	Dr. N. Kurmaiah
Chemistry	Dr. S. Sarkar	Dr. R. S. Konar
Chemistry	Dr. M. S. Adhikary	Dr. R. S. Konar
Chemistry	Dr. S. Guchait	Dr. R. S. Konar
Chemistry	Dr. R. Roy	Dr. M. M. Nandi
Chemistry	Dr. P. Debnath	Dr. M. M. Nandi
Chemistry	Dr. S. Mishra	Dr. S. N. Banerjee
Chemistry	Dr. J. Chowdhuri	Dr. M. M. Nandi
Chemistry	Dr. S. Tarot	Dr. M. M. Nandi
Chemistry	Dr. T. K. Chatterjee	Dr. G. C. Bhaumik
Chemistry	Dr. A. K. Sarkar	Dr. N. Kurmaiah
Chemistry	Dr. N. Dey	Dr. R. S. Konar
Chemistry	Dr. S. C. Mitra	Dr. R. S. Konar
Chemistry	Dr. S.C. Moi	Dr. A. K. Ghosh
Chemistry	Dr. T. Kundu	Dr. A. K. Ghosh & Dr. P. Chowdhury
Chemistry	Dr. B. Chakrabarti	Dr. B. P. Mukhopadhyay
Chemistry	Dr. T. K.Nandi	Dr. B. P. Mukhopadhyay
Chemistry	Dr. S. Samui	Dr. A. K. Ghosh & Dr. P. Chowdhury
Chemistry	Dr. B. Ghosh	Dr. B. P. Mukhopadhyay
Chemistry	Dr. Ranjana	Dr. M. M. Nandi & Dr. M. Maji
Chemistry	Dr. G. K.Ghosh	Dr. S. C. Moi & Dr. A. K. Patra

Name of Department	nvestigator	Supervisor(s)
Chemistry	Dr. S.Mahata	Dr. M. M. Nandi & Dr. B. N. Mondal (CMERI)
Chemistry	Dr. H.S.Borah	Dr. S. S.Panja Dr. S.Choudhury
Chemistry	Dr. S.Roy	Dr. A. K. Patra
Chemistry	Dr. J.Shah	Dr. S. B. Das Dr.Saha R.N. Dr.Raut N. B. (C.C.E., Oman)
Civil Engineering	Dr.M. N. Rao	Dr. Basole MM
Civil Engineering	Dr.P. K. Das	Dr. Basole MM
Civil Engineering	Dr.N. M. Basu	Dr. Rao MN
Civil Engineering	Dr.S. N. Srimani	Dr. Das PK
Civil Engineering	Dr.S. Debbarma	Dr. S. Saha
Civil Engineering	Dr.H.Goyal	Dr. V.K.Dwivedi & Dr D. K. Singha Roy
Computer Science & Engineering	Dr. P. Bhattacharya	Dr. Sanyal G
Computer Science & Engineering	Dr. T. S. Sinha	Dr. Sanyal G
Computer Science & Engineering	Dr. A. Sarkar	Dr. Bhattacharya S
Computer Science & Engineering	Dr. B. Chakraborty.	Dr. Ghosh D
Computer Science & Engineering	Dr. S. Changder	Dr. Ghosh D
Computer Science & Engineering	Dr.J.Bhattacharya	Dr. Sanyal G
Computer Science & Engineering	Dr. R. K. Samanta	Dr. Sanyal G
Computer Science & Engineering	Dr. P. Choudhury	Dr. Nandi S
Computer Science and Engineering	Dr. S. Mukherjee	Dr. Roy, S.
Computer Science and Engineering	Dr. A. K. Pradhan	Dr. T. De
Electrical Engineering	Dr. P. K. Sen	Dr. A. M. Roy
Electrical Engineering	Dr. (Mrs.) J. Majumder	Dr. S. P. Roy Choudhury
Electrical Engineering	Dr. Ranjit Roy	Dr. S.P. Ghoshal
Electrical Engineering	Dr. V. Mukherjee	Dr. S.P. Ghoshal
Electrical Engineering	Dr. S. Karmakar	Dr. N. K. Roy & Dr. P. Kumbhakar
Electrical Engineering	Dr. R. Bhaduri	Dr. S. Banerjee
Electrical Engineering	Dr. P.K. Roy	Dr. S.P. Ghoshal & Dr. S.S. Thakur
Electrical Engineering	Dr. P. Biswas	Dr. Banerjee S.
Electrical Engineering	Dr. A. Chatterjee	Dr. Ghoshal S.P. & Dr. Mukherjee V.
Electrical Engineering	Dr. S. Mallik	Dr. S.S. Thakur, Dr. P. Acharjee, Dr. S.P. Ghoshal

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

Name of Department	nvestigator	Supervisor(s)
Electronics & Communication Engineering	Dr. S. Choudhury	Dr. A.K. Mal
Electronics & Communication Engineering	Dr. S. Chakraborty	Dr. A.K. Bhattacharjee, Dr. S. Majumder, Dr. A. Biswas
Electronics & Communication Engineering	Dr. C. K. De	Dr. S. Kundu
Electronics & Communication Engineering	Dr. S. J. Mandal	Dr. A.K. Bhattacharjee, Dr. D. Mandal, Dr. A. Biswas
Electronics & Communication Engineering	Dr. M. Pal	Dr. R. Ghatak, Dr. A.K. Aditya and Dr. D .R. Poddar
Earth and Environmental Studies	Dr. T. K. Saha	Dr. S. B. Bhattacharjee & Dr.S. N. Ghosh (ChE)
Earth and Environmental Studies	Dr. A. K. Batabyal	Dr. S. B. Bhattacharjee Dr. A. Mukherjee
Earth and Environmental Studies	Dr. K. Adhikari	Dr. A. Gangopadhyay Dr. P. Choudhury
Earth and Environmental Studies	Dr. D. Banerjee	Dr. A. Gangopadhyay Dr. S. Bhattacharyya Dr. S. K. Chakraborty
Earth and Environmental Studies	Dr. S. Karmakar	Dr. A. Gangopadhyay & Dr. K. Brahmachari
Earth and Environmental Studies	Dr. M. Mahapatra	Dr. A. Gangopadhyay & Dr. J. R. Kayal
Earth and Environmental Studies	Dr. B. Chakraborty	Dr. A. Gangopadhyay & Dr. K. Adhikari
Earth and Environmental Studies	Dr. K. Sadhu	Dr. K. Adhikari & Dr. A. Gangopadhyay
Humanities	Dr. R. Chaudhury	Dr. P. P. Sengupta & Dr. S. C. Sikdar
Humanities and Social Sciences	Dr. S. K. Seth	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. A. Bhattacharyya	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. P. Mitra	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. R. Roy	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. C. Samajdar	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. N. Sarkar	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. A. Bhattacharyya	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. T. Biswas	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. A. De	Dr. B.N. Chakrabarti & Dr. G. Bandyopadhyay
Humanities and Social Sciences	Dr. A. Dutta	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. S. Ghosh	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. S. Das	Dr. J. Banerjee

Name of Department	nvestigator	Supervisor(s)
Humanities and Social Sciences	Dr. S. Sengupta	Dr. B. N. Chakrabarti
Humanities and Social Sciences	Dr. S. Bhattacharyya	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. T.Chakrabarty	Dr. J. Banerjee
Humanities and Social Sciences	Dr. Punyajit Gupta	Dr. S. K. Rai
Humanities and Social Sciences	Dr. D.Dey	Dr. P. P. Sengupta
Humanities and Social Sciences	Dr. A. Mukherjee	Dr. A. Modak
Humanities and Social Sciences	Dr. S. Das	Dr. A. Modak
Humanities and Social Sciences	Dr. D. P. Misra	Dr. A. Modak
Humanities and Social Sciences	Dr. S. Pyne	Dr. P. P. Sengupta & Dr. A. Modak
Information Technology	Dr. S. Dutta	Dr. D. Nandi
Management Studies	Dr. T. Chatterjee	Dr. M.Roy
Management Studies	Dr. D. Khastagir	Dr. M.Roy
Management Studies	Dr. K. Roy	Dr Kaushik Mandal
Mathematics	Dr. E. Tarafder	Dr. A. K. Chowdhury
Mathematics	Dr. R. Sircar	Dr. D. N. Mitra
Mathematics	Dr.H. Chattapadhyay	Dr. B. K. Roy
Mathematics	Dr. J. Sanyal	Dr. A. N. Roy Chowdhury
Mathematics	Dr. D. Chatteraj	Dr. S. K. Bose
Mathematics	Dr. T. Chattopadhyay	Dr. S. K. Bose
Mathematics	Dr. T. Das	Dr. R. Sircar
Mathematics	Dr. S. S. Halder	Dr. S. K. Bose
Mathematics	Dr. P. Chakraborty	Dr. A. N. Roy Chowdhury
Mathematics	Dr.SambhuNathDey	Dr. D. Ghosh &Dr. S. C. Sikder
Mathematics	Dr. S. N. Dey	Dr. D. Ghosh (CSE) &Dr. S.C. Sikder
Mathematics	Dr. R. Bhattacharyya	Dr. S. Kar&Dr. D DuttaMajumder
Mathematics	Dr. D. Das	Dr. S. Kar&Dr. A. Roy
Mathematics	Dr. S. Mukherjee	Dr. K. Basu
Mathematics	Dr.A.Das	Dr. K. Basu
Mathematics	Dr. S. Pathak	Dr. S. Sarkar (Mondal)
Mathematics	Dr. P. Karmakar	Dr. S. Kar
Mathematics	Dr. P. Nandi	Dr. S. Kar&Dr. G. Gorain
Mathematics	Dr. G. Panigrahi	Dr. K. Basu
Mathematics	Dr. A. Rana	Dr. A. Pal, &Dr. M. Pal
Mathematics	Dr. P. Narayanan	Dr. A. Pal &Dr.Rizwan
Mathematics	Dr.P. Kundu	Dr. S. Kar&Dr. M. Maiti
Mathematics	Dr.A. Saha	Dr. S. Kar&Dr. M. Maiti

Name of Department	nvestigator	Supervisor(s)
Mathematics	Dr.S. Hazari	Dr. S. Kar, Dr. J.K. Dey&Dr. M. Maiti
Mathematics	Dr. P. Karmakar	Dr. S. Sarkar (Mondal) &Dr.D.Majumdar
Mathematics	Dr. G. Panigrahi	Dr. K. Basu
Mathematics	Dr. S. Dan	Dr. P. Pal
Mathematics	Dr Debashis Ghosh	Dr L. K. Dey
Mathematics	Dr Utpalendu Adak	Dr L. K. Dey& Dr H. K. Samanta
Mathematics	Dr Jyotirmoy Tiwari	Dr KajlaBasu& Dr GoutamMohanti
Mathematics	Dr DalbinderKour	Dr KajlaBasu& Dr Sathi Mukherjee
Mechanical Engineering	Dr. S. N. Mukherjee	Dr. S. K. Basu
Mechanical Engineering	Dr. D. K. Pal	Dr. S. K. Basu
Mechanical Engineering	Dr. S. N. Sengupta	Dr. S. K. Basu
Mechanical Engineering	Dr. G. Mitra	Dr. S. K. Basu
Mechanical Engineering	Dr. G. S. Gill	Prof. N. C. Dasgupta & Dr. D. Bhaduri
Mechanical Engineering	Dr. K. Chatterjee	Dr. N. B.Hui Dr. D. Chatterjee D. (CMERI)
Mechanical Engineering	Dr. P. Basu	Prof. N. C. Dasgupta & Dr. D. Bhaduri
Mechanical Engineering	Dr. A. Majumdar	Dr. S. K. Basu
Mechanical Engineering	Dr. G. S. Patki	Dr. S. K. Basu
Mechanical Engineering	Dr. P. K. Sinha	Dr. D. Bhaduri
Mechanical Engineering	Dr. S. C. Nidhi	Dr. S. K. Basu
Mechanical Engineering	Dr. J. Basu	Dr. S. K. Basu
Mechanical Engineering	Dr. B. Bhaduri	Dr. S. K. Basu
Mechanical Engineering	Dr. S. P. Das	Dr. P. B. Choulia
Mechanical Engineering	Dr. M. S. Mukhopadhyay	Dr. D. K. Pal
Mechanical Engineering	Dr. M. R. Patkar	Dr. D. K. Pal & Dr. S. K. Basu
Mechanical Engineering	Dr. S. Chakraborty	Dr. D. K. Pal
Mechanical Engineering	Dr. M. A. Venkatesh	Dr. D. K. Pal
Mechanical Engineering	Dr. N. P. Mukherjee	Dr. D.K.Pal
Mechanical Engineering	Dr. S. Mukhrejee	Dr. S.N.Sengurpta & Dr. M.C.Majumder
Mechanical Engineering	Dr. Balamurugan Gopla	Dr. S. Ghosh Dr. B.N Mondal. (CMERI)
Mechanical Engineering	Dr. Chandan Chattoraj	Dr. M. C. Majumder
Mechanical Engineering	Dr. A. G. Mathew	Dr. M. C. Majumder Dr. K. P. Ramachandran (CCE, Oman)
Mechanical Engineering	Dr. G. K. Vijayaraghvan	Dr. Majumder M.C. Dr. K. P. Ramachandran (CCE, Oman)

Name of Department	nvestigator	Supervisor(s)
Mechanical Engineering	Dr. S. Vishnupriyan	Dr. K. P. Ramachandran (CCE, Oman) Dr. M. C. Majumder
Mechanical Engineering	Dr. Debroy Pradip	Dr. S.Ghosh
Mechanical Engineering	Dr. Maity Atanu	Dr. S.Ghosh Dr. S. Majumder (CMERI)
Mechanical Engineering	Dr. Murali R. V.	Dr. A. B. Puri & Dr. Khalid
Mechanical Engineering	Dr. Gangopadhyay S.	Dr. M. C. Majumder & Dr. N. R. De
Mechanical Engineering	Dr. Ray D. N.	Dr. Mukherjee S. & Dr. S. Mazumder
Mechanical Engineering	C. Bhattacharya	Dr. Nilotpal Banerjee and Dr. H. Sarkar (WBPCB)
Mechanical Engineering	Anirban C. Mitra	Dr. Nilotpal Banerjee
Mechanical Engineering	Saravanan V.	Dr. Nilotpal Banerjee and Dr. Amuthakkannan (CCE, Oman)
Mechanical Engineering	Dr. Debajyoti Banerji	Dr. Indrajit Basak & Dr. J. Bose (CMERI)
Mechanical Engineering	Dr.Avik Chatterjee	Dr. Indrajit Basak & Dr. S. Majumder (CMERI)
Mechanical Engineering	Dr. Tapas Gangopadhayay	Dr. Indrajit Basak & Dr. D. K. Pratihar. (IIT-Kgp)
	Dr. Debasish Nandi	Dr. Indrajit Basak & Dr. A.B.Puri
Metallurgical & Materials Engineering	Dr. A. C. Ganguli	Dr. S. C. Dasgupta Dr. A. K. Chakraborty
Metallurgical & Materials Engineering	Dr. S. Banerjee	Dr. D. Bhaduri
Metallurgical & Materials Engineering	Dr. B. Deo	Dr. S. Sarkar
Metallurgical & Materials Engineering	Dr. A. Basu	Dr. S. C. Sengupta & Dr. S. Jana
Metallurgical & Materials Engineering	Dr. S. K. Chattopadhyay	Dr. S. K. Chatterjee &
Dr. S. P. Sengupta		
Metallurgical & Materials Engineering	Dr. K. Lal	Dr. S. K. Chattopadhyay & Dr. A. K. Meikap (PH)
Metallurgical & Materials Engineering	Dr. Subhendu Mukherjee	Dr. D. K. Mondal
Metallurgical & Materials Engineering	Dr. Debashis Ghosh	Dr. S.K. Mitra
Metallurgical & Materials Engineering	Dr. Ranjan Kumar Dasgupta	Dr. D. K. Mondal & Prof. A. C. Ganguli
Metallurgical & Materials Engineering	Dr. A. Saha.	Dr. Mondal D. K. & Dr. Maity J
Metallurgical & Materials Engineering	Dr. B. K. Show	Dr. J. Maity & Dr. D.K. Mondal
Metallurgical & Materials Engineering	Dr. M. K. Mondal	Dr. J. Maity & Dr. Biswas K (IIT Kharagpur)
Metallurgical & Materials Engineering	Dr. R. Karunanithi	Dr. S.Bera & Dr. K.S. Ghosh
Metallurgical & Materials Engineering	Dr. Prasanta Kumar Rout	Dr. K.S. Ghosh & Dr. M.M Ghosh

Name of Department	nvestigator	Supervisor(s)
Metallurgical & Materials Engineering	Dr. Susanta Pramanik	Dr. S.K. Mitra
Physics	Dr. N. Choudhury	Dr. M.S. Sinha
Physics	Dr. A. K. Das	Dr. M.S. Sinha
Physics	Dr. B. C. Nandi	Dr. M.S. Sinha
Physics	Dr. P. S. Basu	Dr. M.S. Sinha
Physics	Dr. G. S. Roy	Dr. M.S. Sinha
Physics	Dr. (Mrs.) R. Sen	Dr. S.K. Chatterjee
Physics	Dr. D. Biswas	Dr. A.K. Meikap & Dr. S.K. Chattopadhyay
Physics	Dr. S. Sahoo	Dr. L. Maharana & Dr. A.K. Meikap
Physics	Dr. A. Sarkar	Dr. A.K. Meikap & Dr. S.K. Chatterjee
Physics	Dr. J. Ghosh	Dr. S.K. Chatterjee
Physics	Dr. P. Kr. Singha	Dr. A.K. Mitra
Physics	Dr. M. Chattopadhyay	Dr. P. Kumbhakar
Physics	Dr. S. Ghatak	Dr. A.K. Meikap
Physics	Dr. K. Gupta	Dr. A.K. Meikap & Dr. P. C. Jana (V.U.)
Physics	Dr. R. Sarkar	Dr.P.Kumbhakar & Dr. A.K. Mitra
Physics	Dr. K. Talukdar	Dr. A.K. Mitra
Physics	Dr. G. Chakraborty	Dr. A.K. Meikap
Physics	Dr. P. Ghosh	Dr. A.K. Meikap
Physics	Dr. S.M.Hossain	Dr. S. Basu & Dr. M. Pal
Physics	Dr. R.Paul	Dr. A.K. Mitra
Physics	Dr. R.K.Agarwalla	Dr. A.K. Chakraborty & Dr. A.K. Mitra
Physics	Dr. S.Banerjee	Dr. S. Sahoo & Dr. B Sahoo (TDB College, Ranigang)
Physics	Dr. C.K. Das	Dr. S. Sahoo & Dr.L. Maharana
Physics	Dr. H.S. Desarkar	Dr.P.Kumbhakar & Dr. A.K. Mitra
Physics	Dr. A.Chatterjee	Dr. N.K.Roy and Dr.P.Kumbhakar
Physics	Dr. A.Ganguly	Dr. A. Mondal, Dr. R.K. Yadav
Physics	Dr. A. Kole	Dr.P.Kumbhakar
Physics	Dr. S.K.Sahoo	Dr. S. Sahoo, Dr. B.K. Sahoo (NIT Raipur)
Physics	Dr. R. K. Agrawalla	Dr. A.K. Chakraborty & Dr. A.K. Mitra (Retd)

Name of Department	nvestigator	Supervisor(s)
Physics	Dr. K. Mukherjee	Dr. A.K. Meikap. & Dr.P.Kumbhakar
Physics	Dr. S. Sinha	Dr. A.K. Meikap.& Dr. S.K. Chatterjee
Physics	Dr. S. Chakraborty	Dr.P.Kumbhakar
Physics and ECE (NITA)	Dr. J. C. Dhar	Dr. A. Mondal
Physics and ECE(NITA)	Naorem Khelchand Singh	Dr. A. Mondal

Annexure - 11.4(h) ii. Proposed Plan for Research

Department of Biotechnology

- Anti-microbials and anti-diabetic compounds from plant/food sources.
- Assessment on the removal of heavy metals and dye using low cost adsorbents.
- Biodegradation of pesticides
- Bioenergy
- Biofuels
- Bionanotechnology
- Biopigments
- Bioprospecting microbial diversity for biomolecules
- Bioremediation
- Bioremediation of textile dye
- Biosurfactant production and application
- Cancer Biology
- Developmental Biology and Signal Transduction
- Environmental Microbiology and Biotechnology
- Extraction and application of natural dye
- Microbial fermentation
- Microbial genomics and metagenomics
- Microbiology of arsenic contaminated groundwater
- 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)
- Biogas Production by Co-Digestion of Sewage Sludge, Waste paper and Waste Grown Algae
- Catalytic membrane reactor
- Circulating Fluidized Bed Combustion & Gasification
- Clean Technology for Chemical Processes
- Computer Aided Analysis of Biodiesel Synthesis Using Lipase – Immobilized Inverse Fluidized Nanosilica Particles
- Co-pyrolysis, Combustion and Gasification
- Design and Analysis of Fluidized / Semifluidized Bed Bioreactors for Biodiesel Synthesis
- Design and Analysis of Semi Fluidized Bed Bioreactors
- Design of Three Phase Fluidised Bed Combustion Equipment for Colloidal Fuels (Coal- 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 nanofiltration of arsenic removal by membrane-integrated hybrid system
- Modelling of Diesel Particulate Filter (DPF)
- Multiphase flow
- Optimization and control
- Optimization of Surface Modification of Natural Adsorbents for its Application towards Remediation of Watercourse Contaminated with Crude Oil and Weathered Oil by Inverse Fluidized Bed
- Performance Characteristics of Inverse Fluidized Bed Bioreactors with Special Reference to Bioplastic Synthesis
- Performance Analysis of Circulating Fluidised Bed Bioreactors employing Immobilised Enzyme Nanoparticles

- 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
- Studies on Synthesis of Lactic Acid from Agricultural / Food Wastes in Down Flow Stationary Fixed Film (DSFF) Bioreactors
- Synthesis of Lactic Acid from Cheese Whey and Molasses in Semifluidised Bed Biofilm Reactors
- Treatment of Industrial Wastewater

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.
- 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, Development of Fluorescence sensor
- 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 and fatty acids of different fish species
- 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

- 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
- Pipe-soil interaction
- Removal of heavy toxic metal from ground water using nanotechnology.
- Rural water management
- Setting up of a center of low-cost housing facilities
- Soil-structure interaction
- Solid waste management
- Structural health monitoring, strengthening and retrofitting
- Structural reliability
- System Identification of structural systems
- Vibration control of different types of structures subjected to environmental loads
- Wind energy Studies

Department of Computer Applications

- Design and Architecture of Multi Agent based system

- Design and Architecture of Semi-structure Software system
- Design of Latency Aware Hybrid Ad Hoc Infrastructure for post Disaster Communication.
- Designing Smart Cities in perspective of Intelligent Transport system with Pollution Route Map and Energy Efficient Campuses
- 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
- Automatic Expert Systems
- Biometrics
- Computational Geometry
- Computer Architecture
- Computer Vision
- Data Mining
- Delay Tolerant Network
- Discovery Based Machine Learning
- Distributed Computing
- Emerging Nanoelectronics
- Evolutionary Computing
- Fault tolerant Architecture
- Fuzzy Decision Making
- Generalization, regularization and Robust ANN
- Human-Computer Interaction
- Image Processing
- Image Understanding & Pattern Recognition
- Machine Learning
- Mobile Computing
- Mobile Network
- Multi-objective Optimization
- Multiprocessor and Multicore Architecture
- Optical Networks
- Optimization Using Genetic Algorithm
- Pattern Classification
- Peer to Peer Networks
- QCA based design
- Quantum-dot Cellular Automata
- Reversible Computing
- Satisfiability Checking
- Soft Computing
- Swarm Intelligence
- Testing of digital logic circuit
- Text Categorization and Summarization
- Transportation Problem
- VLSI Design and Test
- Wireless Sensor Network

Department of Earth and Environmental Study

- Environmental impact on coal mining areas
- Groundwater availability and its management
- Groundwater contaminant transport and its removal
- Groundwater Management technique
- Impact of industrial pollution on the environment
- Removal of Fluoride from groundwater
- 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 Ziirconate
- Unification of field forces and to explore some of the unanswered phenomena in nature and science
- Biomedical Instrumentation
- Biomedical Modelling

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
- Resistive Memory Devices
- Semiconductor Process Technology
- Nanoscale Semiconductor Devices

Department of Humanities and Social Sciences

- International Economics
- Mathematical Economics
- Development Economics
- Operations Research
- Managerial Economics
- Applied Econometrics
- Open Economy Macroeconomics
- Labour Economics
- Religion
- Cinema
- Postcolonial Literature
- Development Studies
- Entrepreneurship and Innovation
- Financial Economics and Management

Department of Information Technology

- Distributed ontology alignment
- Bio-medical image analysis
- Auction based cloud computing
- Internet of things and related issues
- Vehicular Ad-Hoc networks
- Cardiac CT image segmentation
- Deep learning in computer vision
- Agent technology and algorithms
- Service oriented middleware for SOC in mobile AdHoc network
- Spectrum treading for cognitive radio in static and dynamic environments
- Distributed area coverage by a swarm of mobile robots
- Optimal power flow incorporating different facts devices using evolutionary algorithms
- Super-resolution reconstruction and image segmentation of b-mode ultrasound image
- Brain MRI segmentation
- Sparse based image enhancement
- Image reconstruction, enhancement and multiplicative noise reduction using sparse image processing
- Application of microwaves in biomedicine
- On cryptography and auction theory
- Neighbour discovery using directional antenna
- NLP based knowledge provider systems
- OCR on bangla script
- Design of low Cost, low resolution single camera based stereo vsion system for computer vision application
- Big data analytics
- Auction aware healthcare
- Design of fault-tolerant circuits in quantum dot cellular automata

Department of Management Studies

- Banking Sector
- Education Management
- Employee Green Behaviour
- Environment Economics & Management
- Finance
- Green Management
- Human resource management
- Insurance
- Marketing Research
- Pension Sector
- Psychological Capital
- Sales & Distribution
- Branding
- Operations Research
- Supply Chain Management
- Operations 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

- Advanced Thermal Power generation system analysis with CO2 capture
- 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
- Design of underwater object at flow condition and to procure an innovative wave energy converter
- Development of All terrain robot
- Development of climbing robot
- Dynamic Modelling of Flexible Manipulators
- Entropy Generation Minimization based thermodynamic optimization of systems
- Experimental Analysis of Composite Structures
- Flow Forming of Hard to Deform Metals
- Investigation of Heat Transfer and Fluid Flow Phenomenon of Artificially Roughened Duct Using Liquid Crystal Thermography System
- Investigation on the design of continuous casting mould
- Law of Motive force based thermodynamic optimization of systems
- Machine dynamics
- Mechanical System Modelling
- Micromachining
- Nonlinear Control
- Vehicle Dynamics

Department of Metallurgical & Materials Engineering

- Corrosion fatigue/environmental assisted cracking 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.
- 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

- Application of Carbon Nanostructures in dye sensitized solar cells
- Carbon nanotubes and graphene based metal oxide composites for supercapacitors
- Characterization of optical detector
- Development of epoxy nanocomposites reinforced with graphene nanoplatelets
- Development and characterization of nanomaterials using laser
- Fabrication & characterization of Graphene based gas sensors
- Fabrication of nanowire and optical detector

- Glancing angle and oblique angle deposition technique for nanostructure fabrication
- Green synthesis of nanoparticles.
- Interface and load transfer in carbon nanoparticle based epoxy nanocomposites
- Investigation on Geochemical and Geophysical Aspect for Geothermal Exploration and Helium Exploration.
- Investigation on Multi-parametric and Multi-station based Geochemical Precursors for Earthquakes.
- Investigation on Nonlinearity present in Earthquake Precursory Signals
- Large scale Extraction of helium from petroleum deposits and hydrothermal gas and its purification
- Low temperature characterization of nano-composites, conducting polymers and disordered alloys
- Nonlinear optical techniques for characterization of nanomaterials
- Preparation and characterization of advanced polymer composites with carbon nanostructures
- Reliability prediction studies of lead free solder joint interface used in electronics & microelectronics applications
- Studies of the effect of electric and magnetic fields on liquid crystals by polarizing light microscopy
- Studies onphenomenology of - Boson and B-meson decays, phenomenology of massive neutrinos
- Synthesis of various nanostructures for photocatalysis applications.
- Synchronous communication system, studies on multiphase oscillator, nonlinear dynamics
- Synthesis and Characterization and Study of Optical and Nonlinear Optical Properties of Semiconducting and Metallic Nanoparticles and Quantum Dots
- Synthesis and characterization of nanostructured materials
- Synthesis and properties of carbon nanotube reinforced polymer nanocomposites Synthesis of metal nanoparticles by laser ablation and study of optical properties

Annexure–11.4(i) Testing & Consultancy services rendered during 2015-16

Department	Title of the Project	Amount (Total in Rs.)
Chemical Engineering	Project Advisory Service for Solid Waste Management within ADDA region	Rs. 7.86520 lakh

11.5(a) Number of Faculty in position

	Professor	Assoc Prof.	Asst. Prof	Asstt. Prof (Contract.)	Trainee Teacher
	In position	In position	In position	In position	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)
Aikat Kaustav, Ph.D.	Associate Professor	Microbial Biotechnology and Biochemical Engineering	kaustav.aikat@bt.nitdgp.ac.in aikatk@yahoo.co.in
Bhattacharjee Ashish, Ph.D.	Ramalingaswami Fellow, Govt. of India (Scientist D)	Cell Biology, Molecular mechanism of Inflammation and Cancer, Cell Signaling	ashish.bhattacharjee@bt.nitdgp.ac.in ashish15lo@yahoo.com
Chattopadhyay Sudip, Ph.D.	Professor	Developmental Biology and signal transduction	sudip.chattopadhyay@bt.nitdgp.ac.in sudipchatto@yahoo.com
Chaudhuri Surabhi, Ph.D.	Associate Professor	Biochemical Engineering, Food Biotechnology	surabhi.chaudhuri@bt.nitdgp.ac.in surabhi_c@yahoo.com
Dasgupta Mandal Dalia, Ph.D	Associate Professor	Tissue culture technology, Molecular Biology	dalia.dasgupta@bt.nitdgp.ac.in dasguptadalia@yahoo.com
Dey Apurba, Ph.D.	Professor	Biochemical Engineering, Environmental Biotechnology	apurbadey1960@gmail.com apurbadey2003@yahoo.co.in
Dutta Debjani, Ph.D.	Assistant Professor	Food Biotechnology, Biochemistry, Microbial Biotechnology	debjani.dutta@bt.nitdgp.ac.in debs_2000in@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Ghosh Monidipa, Ph.D.	Assistant Professor	Immunobiology of antigen presenting cells, Host cell – parasite interaction and consequences in signal transduction	gmonidipa@yahoo.com
Kazy Sufia Khannam, Ph.D.	Assistant Professor	Environmental Microbiology, Bioremediation, Microbial Genomics and Metagenomics	sufia.kazy@bt.nitdgp.ac.in sufia_kazy@yahoo.com
Mahata Nibedita,Ph.D.	Assistant Professor	Biochemistry, Cell Biology, and Immunology	nibedita.mahata@gmail.com nibedita.mahata@bt.nitdgp.ac.in
Mukhopadhyay Sudit Sekhar, Ph.D.	Associate Professor	Molecular Biology of Cancer, Human Genetics, Animal Biotechnology	suditmukhopadhy@yahoo.com
Roy Barman Subhankar, Ph.D.	Assistant Professor	Molecular plant – fungus interactions, Plant molecular biology	subhankarroy.barman@bt.nitdgp.ac.in sroybarman@gmail.com
Department of Chemical Engineering			
Das Bimal	Assistant Professor	Fluidization, Multiphase Flow Adsorption, Environment	bimal.das@che.nitdgp.ac.in bimal_30@yahoo.com
Dutta Susmita,	Associate Professor	Environmental Engineering, Biochemical Reaction Engineering	susmita.dutta@che.nitdgp.ac.in susmita_che@yahoo.com
Ghanta Kartik Chandra,	Professor	Multiphase Flow, Slurry Flow Modelling	kartik.ghanta@che.nitdgp.ac.in kcghanta@yahoo.com kartikghanta@gmail.com
Gupta Parthapratim,	Professor	Mathematical Modelling, Combustion & Gasification of Coal & Biomass	parthapratim.gupta@che.nitdgp.ac.in parthgupta2000@yahoo.com
Halder Gopinath,	Associate Professor	Chemical Engg Thermodynamics, Process Heat Transfer, Environmental Energy	gopinath_haldar@yahoo.co.in gopinathhaldar@gmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Mandal Mrinal Kanti,	Assistant Professor	Membrane Seapartion Processes Petroleum Refinery, Mass Transfer Operation, Modeling, Simulation and Optimization of Process Design	mrinalmandal@gmail.com mrinal_ml78@yahoo.co.in
Mandal Tamal,	Professor	Environmental Bio-Engineering, Bio-Reaction Engineering	tamal.mandal@che.nitdgp.ac.in tamal.nitdgp@gmail.com; tamal_mandal@yahoo.com
Narayanan C M,	Professor	Transport Phenomena, Computer Aided Design, Bioprocess Engineering, Energy Engineering	cm.narayanan@che.nitdgp.ac.in cmn_recd@yahoo.co.in
Pal Parimal,	Professor	Process Intensification through membrane technology, Industrial wastewater treatment, Arsenic removal technology development, Mass Transfer	parimal.pal@che.nitdgp.ac.in parimalpal2000@yahoo.com
Paruya Swapan,	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
Sarkar Jyoti Prakash,	Professor	Fluidization, Multiphase Flow, Mass Transfer (Spl. Interest: Solid waste management & Energy Management)	jyotiprakash.sarkar@che.nitdgp.ac.in jp_sarkar@yahoo.co.in
Sikder Jaya	Assistant Professor	Membrane Separation, Fermentation Technology, Bioprocess Engineering	jaya.sikder@che.nitdgp.ac.in umuniqueme1@gmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Department of Chemistry			
Adhikari Utpal, PhD	Assistant Professor	Carbohydrate chemistry, Organic synthesis	utpalshuchi1@gmail.com
Chakrabarty Jitamanyu, PhD	Assistant Professor	Lipid Chemistry, Food Chemistry Analytical Chemistry Cryobiology	jitamanyu.chakrabarty@ch.nitdgp.ac.in jito19@gmail.com
Maji Milan, PhD	Associate Professor	Coordination Chemistry, Inorganic materials	milan.maji@ch.nitdgp.ac.in milan_maji@yahoo.co.in
Moi Sankar Chandra, PhD	Associate Professor	Kinetics and mechanism of biologically important Inorganic substitution reaction	sankar.moi@ch.nitdgp.ac.in sankarmoi67@yahoo.com
Mukhopadhyay Bishnu Prasad, PhD	Professor	Bioinformatics – Protein Modelling, Molecular Modelling, Computer Aided Drug Design, Cancer (human) inhibitor Design, Protein Dynamics	bisnu.mukhopadhyay@ch.nitdgp.ac.in bpmk2@yahoo.com
Panja Sujit Sankar, PhD	Assistant Professor	Fluorescence Spectroscopy Development of sensor	sujit.panja@ch.nitdgp.ac.in Sujit.panja@gmail.com
Patra Apurba Kumar, PhD	Associate Professor	Inorganic Chemistry relevant to biology	apurba.patra@ch.nitdgp.ac.in apurba_69@yahoo.com
Saha Rajnarayan, PhD	Associate Professor	Inorganic Chemistry, Environmental Chemistry, Water and wastewater Treatment, Environmental Management	rajnarayan.saha@ch.nitdgp.ac.in rajusaharupa@yahoo.com
Saha Tanmoy Kumar, Ph.D	Assistant Professor	Organometallic chemistry, Synthesis & applications of Schiff base	chem.tanmoy@gmail.com tanmoy.saha@ch.nitdgp.ac.in
Sukul Dipankar, PhD	Associate Professor	Ultra fast laser spectroscopy, Electrochemistry, Corrosion Science and Technology	dipankar.sukul@ch.nitdgp.ac.in dipankar.sukul@gmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Department of Civil Engineering			
Banik Atul Krishna, PhD	Associate Professor	Dynamics of Nonlinear Flexible Systems under Deterministic and Stochastic Excitation, Stability of Compliant Offshore Structures, Dynamics of Nonautonomous Delayed System	atulkrishna.banik@ce.nitdgp.ac.in akbanik@gmail.com
Bhattacharya Kamal, PhD	Professor	Earthquake Engineering, Foundation Engineering	kamal.bhattacharyya@ce.nitdgp.ac.in
Bhattacharyya Soumya, PhD	Associate Professor	Environmental Engineering	soumya.bhattacharyya@ce.nitdgp.ac.in
Das Amlan, PhD	Professor	Water Resources Engineering	amlan.das@ce.nitdgp.ac.in
Das Diptesh, PhD	Assistant Professor	Structural Dynamics, Earthquake Engineering, Structural Control, Non-linear Analysis	diptesh.das@ce.nitdgp.ac.in d_diptesh@yahoo.com dipteshdas151@gmail.com
Datta Aloke Kumar, PhD	Associate Professor	Earthquake Engineering, SHM	alokekumar.datta@ce.nitdgp.ac.in
Dwivedi Vijay Kumar, PhD	Professor	Water Resources Engineering	vijaykumar.dwivedi@ce.nitdgp.ac.in vkdwivedi10725@yahoo.co.in
Karmakar Somnath	Assistant Professor	Structural Engineering	somnath.karmakar@ce.nitdgp.ac.in
Nanda Radhikesh Prasad, PhD	Associate Professor	Repair and retrofitting, Disaster management, Earthquake resistant masonary buildings	rpnanda@gmail.com
Pal Supriya	Assistant Professor	Soil Mech & Foundation Engineering	supriya.pal@ce.nitdgp.ac.in supriya_pal@rediffmail.com
Roy Pronab	Assistant Professor	Structural Engineering, Structural Reliability, Probability and Applied Statistics, Analysis and Design of offshore Pipelines, Pipe-soil interaction	pronab.roy@ce.nitdgp.ac.in pronabroy@rediffmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Roy Purnendu, PhD	Professor	Structural Engineering	purnendu.roy@ce.nitdgp.ac.in
Saha Showmen, PhD	Professor	Struct. Engg. &Concrete Structure, Smart Material	soumen.saha@ce.nitdgp.ac.in
Samal Nihar Ranjan, PhD	Assistant Professor	Soft computing, Water & wastewater treatment, Climate change analysis & Sustainability, Risk analysis and urban flooding	nihar.samal@ce.nitdgp.ac.in nihar_samal@yahoo.co.in
Samanta Amiya Kumar, PhD	Associate Professor	Comp. & exp. Mechanics of Concrete/ composite structures	amiyak.samanta@ce.nitdgp.ac.in aksnitd@gmail.com
Singha Roy Dilip Kumar, PhD	Professor	Structural Engineering-Composite & Experimental mechanics of Concrete and Composite structures /retrofitting & strengthening and Concrete technology with conventional & non-conventional materials	dsr_rec_dgp@yahoo.com dilip.sroy@gmail.com Dilip.singharoy@ce.nitdgp.ac.in
Topdar Pijush, PhD	Assistant Professor	Smart structures, composite and sandwich structures, structural rehabilitation and structural health monitoring	pijush.topdar@ce.nitdgp.ac.in, topdar72@yahoo.co.uk
Department of Computer Applications			
Changder Suvamoy, PhD	Assistant		
Professor	Steganography, Watermarking	suvamoy.changder@ca.nitdgp.ac.in	suvamoy.nitdgp@gmail.com
Choudhury Prasenjit, PhD	Assistant Professor	Ad-hoc Network, Network Security	prasenjit.choudhury@ca.nitdgp.ac.in prasenjit0007@yahoo.co.in
Das Suvrojit, PhD	Assistant Professor	System Security	suvrojit.das@ca.nitdgp.ac.in suvrojit.das@gmail.com
Saha Mousumi	Assistant Professor	VLSI Design	mousumi.saha@ca.nitdgp.ac.in msaha.nitd@gmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Sarkar Anirban, PhD	Assistant Professor	Software Engineering, Data Warehousing	anirban.sarkar@ca.nitdgp.ac.in sarkar.anirban@gmail.com
Sharma Abhijit, PhD	Assistant Professor	Mobile Cellular Network	abhijit.sharma@ca.nitdgp.ac.in abhijit.cst@gmail.com
Saha Sujoy, PhD	Assistant Professor (Contractual)	Mobile Communication, Network Security, Delay Tolerant Network, Microcontroller	sujoy.ju@gmail.com, Sujoy.saha@ca.nitdgp.ac.in
Computer Centre			
Chandran Saravanan, PhD	Assistant Professor	Digital Image Processing, Image Compression, Quality Of Images, Color Image Processing, Load Forecasting, Bio-Informatics	chatterjee.rajib@gmail.com, rajib.chatterjee@cc.nitdgp.ac.in
Chatterjee Rajib, PhD	Assistant Professor	Software Engineering	chatterjee.rajib@gmail.com, rajib.chatterjee@cc.nitdgp.ac.in
Department of Computer Science and Engineering			
Bhattacharya Sanghita, PhD	Assistant Professor (Contractual)	Mobile Computing	sanghita.b@gmail.com
Dalui Mamata, PhD	Assistant Professor (Contractual)	Distributed Computing, Multiprocessor and Multicore Architecture, VLSI Design and Test	mamata.06@gmail.com mamata_dalui@rediffmail.com
De Tanmay, PhD	Associate Professor	Optical Networks	tanmayd12@gmail.com
Guha Thakurta Parag Kumar	Assistant Professor	Mobile Computing	paragkumar.guhathakurta@cse.nitdgp.ac.in
Kisku Dakshina Ranjan, PhD	Assistant Professor (On Contract)	Biometrics, Affective Computing, Machine Vision, Game Theory	drkisku@cse.nitdgp.ac.in drkisku@gmail.com
Nandi Subrata, PhD	Associate Professor	Peer to Peer Networks	subrata.nandi@cse.nitdgp.ac.in subrata.nandi@gmail.com
Pal (DebRay) Tandra, PhD	Associate Professor	Soft Computing, Machine Learning, Fuzzy Decision making, Optimization Using Genetic Algorithm, Swarm Intelligence	tandra.pal@cse.nitdgp.ac.in tandranit@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Sadhu Sanjib	Assistant Professor	Computational Geometry	sanjib.sadhu@cse.nitdgp.ac.in sanjibsadhu411@gmail.com
Sanyal Goutam, PhD	Professor and Dean (FA)	Image Processing, Steganography	gautam.sanyal@cse.nitdgp.ac.in gs_cse@cse.nitdgp.ac.in nitgsanyal@gmail.com
Sarker Goutam, PhD	Associate Professor	Pattern Recognition, Computer Vision, Machine Learning, Artificial Neural Networks, Text Categorization, Data Mining	goutam.sarker@cse.nitdgp.ac.in sarkergoutam@yahoo.co.in g.sarker@ieee.org
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			
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			
Acharjee Parimal, PhD	Associate Professor	Power Systems	parimal.acharjee@ee.nitdgp.ac.in parimal.acharjee@gmail.com
Banerjee Subrata, PhD	Associate Professor & Head	Power Electronics, Control Systems	subrata.banerjee@ee.nitdgp.ac.in bansub2004@rediffmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Barman Jitesh Chandra	Assistant Professor	Electrical Machines & Drives	jiteshchandra.barman@ee.nitdgp.ac.in jcb_nitdgp@rediffmail.com
Bhowmik Partha Sarathee, PhD	Assistant Professor	Power Systems	parthasarathee.bhowmik@ee.nitdgp.ac.in psbhowmik@gmail.com
Das Avinandan	Assistant Professor	Electrical Machines	avinandan.das@ee.nitdgp.ac.in
Datta Swapan Kumar, PhD	Professor	Electrical Machines & Drives	swapan.dutta@ee.nitdgp.ac.in skd_nit_ee@yahoo.co.in
De Jayati, PhD	Assistant Professor	Control Systems	jayati.dey@ee.nitdgp.ac.in deyjayati@rediffmail.com
Ghosh Saradindu, PhD	Professor	Power Systems, High Voltage, Electromagnetic Fields	sghosh.ee@gmail.com
Ghoshal Shakti Prasad, PhD	Professor	Power Systems, Soft Computing, Antenna Design, DSP Optimization, VLSI Optimization	saktiprasad.ghoshal@ee.nitdgp.ac.in spghoshalnitdgp@gmail.com
Halder Suman, PhD	Assistant Professor	Measurement & Instrumentation, Biomedical Instrumentation	suman.halder@ee.nitdgp.ac.in sum_hal@yahoo.co.in
Koley Chiranjib, PhD	Associate Professor	Instrumentation, High Voltage	chiranjib.koley@ee.nitdgp.ac.in chiranjib_k@yahoo.com
Mahato Sankar Narayan, PhD	Associate Professor	Electrical Machines & Drives	sankar.mahato@ee.nitdgp.ac.in snmrec@yahoo.co.in
Ray Nirmal Kumar, PhD	Professor	High Voltage Engineering, Simulation of Magnetic fields, e-governance, Application of ICT in High Voltage Engineering	nirmalkumar.roy@ee.nitdgp.ac.in roy_nk2003@yahoo.co.in
Saha Tapas K	Associate Professor	Electrical Machines & Drives	tapas.saha@ee.nitdgp.ac.in tapassaharec@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Sarkar Supriya	Assistant Professor	Power Systems	supriya.sarkar@ee.nitdgp.ac.in
Thakur Siddhartha Shankar, PhD	Professor	Power Systems	siddhartha.thakur@ee.nitdgp.ac.in sst_nit_ee@yahoo.co.in
Department of Electronics & Communication Engineering			
Bhattacharjee Anup Kumar, PhD	Professor and Dean (S/W)	Cryptography, Antenna, Microwave	anupkumar.bhattacharaya@ece.nitdgp.ac.in akbece12@yahoo.com
Chandra Aniruddha, PhD	Assistant Professor	Wireless Communication	aniruddha.chandra@ece.nitdgp.ac.in aniruddha_chandra@yahoo.co.in
De Asish Kumar, PhD	Associate Professor	Digital Signal Processing, Microprocessor, Digital Electronics	asishkumar.de@ece.nitdgp.ac.in asishde@yahoo.com
Dhar Roy Sanjay, PhD	Assistant Professor	Wireless Communication	sanjay.dharroy@ece.nitdgp.ac.in s_dharroy@yahoo.com
Ghatak Rowdra, PhD	Professor & Head	Microwave, Antenna	rowdraghatak@yahoo.com
Kar Rajib , PhD	Assistant Professor	Interconnect modelling	rajib.kar@ece.nitdgp.ac.in rajibkarece@gmail.com
Kundu Sumit, PhD	Professor and Head	Wireless communication	sumit.kundu@ece.nitdgp.ac.in sumitkundu@yahoo.com
Mahanti Gautam Kumar, PhD	Professor	Soft Computing, Antennas, Electromagnetics	gautamkumar.mahanti@ece.nitdgp.ac.in gautammahanti@yahoo.com
Mahapatra Rajat,PhD	Associate Professor	Microelectronics, VLSI	rmahapatranitd@gmail.com rajat.mahapatra@ece.nitdgp.ac.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Maji Banshi Badan,PhD	Professor	Microwave, Electronics Devices, Electromagnetics	banshibadan.majhi@ece.nitdgp.ac.in
Majumder Aurpan	Assistant Professor	Image Processing, Communication, Pattern Recognition	aurpan.majumder@ece.nitdgp.ac.in reach2am@yahoo.com
Mal Ashis Kumar,PhD	Associate Professor	Mixed Signal VLSI Design, Interconnect Modelling	akmal@ece.nitdgp.ac.in toakmal@gmail.com
Mandal Durbadal, PhD	Assistant Professor	Crytography, Antenna	durbadal.mondal@ece.nitdgp.ac.in durbadal_nit12@yahoo.co.in
Mandal Sujit Kumar, PhD	Assistant Professor	Soft Computing, Antenna, Energy Harvesting	sujit.mandal@ece.nitdgp.ac.in skmandal2006@gmail.com
Sadhukhan Tapas	Associate Professor	Wireless Communication	tapas.sadhukhan@ece.nitdgp.ac.in tapasnitd@gmail.com
Department of Humanities and Social Sciences			
Banerjee Joydeep, PhD	Assistant Professor	Indian English Literature	joydeep.banerjee@hu.nitdgp.ac.in
Chakrabarti Baidyanath, PhD	Professor	Public Finance, Econometrics	baidyanath.chakrabarti@hu.nitdgp.ac.in
Modak Arindam, PhD	Assistant Professor	Literacy Theory and Criticism	arindam.modak@hu.nitdgp.ac.in
Rai Shri Krishan, PhD	Assistant Professor	Indian English Literature, Religion, and Cinema	srikrishanrai4@gmail.com
Sengupta Partha Pratim, PhD	Professor & Head	International Economics, Industrial Economics, Development Economics	parthapratim.sengupta@hu.nitdgp.ac.in
Department of Information Technology			
Chakraborty Baisakhi, PhD	Assistant Professor	DBMS, Software Engineering, Knowledge Management and its applications	baisakhi.chakraborty@it.nitdgp.ac.in baisakhichak@yahoo.co.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Choudhury Subhrabrata, PhD	Associate Professor	Network Performance, Wireless and optical networks	subhrabrata.choudhury@it.nitdgp.ac.in subhrabrata@gmail.com
Das Deepanwita	Assistant Professor	Swarm Robots, Internet and Web Technology	deepanwita.das@it.nitdgp.ac.in deepanwitadaptary@gmail.com
Dutta Animesh, PhD	Assistant Professor	Distributed Computing, Modelling and Designing of Real Time Network	animesh.dutta@it.nitdgp.ac.in animeshrec@gmail.com
Howlader Jaydeep	Assistant Professor	Cryptography and Information Security, Object Oriented Technology	jaydeep.howlader@it.nitdgp.ac.in howlader_j123@yahoo.com
Jana Nanda Dulal	Assistant Professor	Soft Computing, Multiobjective Genetic Algorithm, Bio Informatics	nandadulal.jana@it.nitdgp.ac.in nanda.jana@gmail.com
Majhi Subhankar	Assistant Professor	Graphics & VLSI	subhankar.majhi@it.nitdgp.ac.in subhankar_nitd@hotmail.com
Mitra Debasis, PhD	Assistant Professor	VLSI Testing	debasis.mitra@gmail.com debases.mitra@it.nitdgp.ac.in
Mukhopadhyay Sajal, PhD	Assistant Professor	Algorithms, algorithmic game theory, Network Simulation	sajal.mukhopadhyay@it.nitdgp.ac.in sajmure@gmail.com
Nandi Debashis, PhD	Associate Professor & Head	Signal and Image processing, Non-linear Dynamics	debashis.nandi@it.nitdgp.ac.in debasishn2@yahoo.co.in
Department of Management Studies			
Bandyopadhyay Gautam, PhD	Associate Professor & Head	Operations Research and Quantitative Techniques	goutam.banerjee@dms.nitdgp.ac.in math_gb@yahoo.co.in
Banerjee Neelotpaul, PhD	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

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
De Anupam, PhD	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	Common property resource management, Knowledge management, Green Accounting and environment sustainability	mousumi.roy@dms.nitdgp.ac.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			
Bagchi Satya, Ph D	Assistant Professor	Algebra, Cryptography. Coding Theory, Design Theory	satya.bagchi@maths.nitdgp.ac.in satya5050@gmail.com
Sarkar Subhadip	Assistant Professor	Operations Research, Supply Chain management, Operations Management	subhadip.sarkar@dms.nitdgp.ac.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Basu Kajla, PhD	Professor & Head	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			
Banerjee Nilotpal, PhD	Professor & Head	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, PhD	Associate Professor	Fluid Mechanics, Hydraulic M/cs	arup.biswas@me.nitdgp.ac.in

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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 jeetarkaanik@yahoo.co.in
Hui Nirmal Baran, PhD	Associate Professor	Mobile Robotics, Soft Computing, Computer Graphics	nirmal.hui@me.nitdgp.ac.in
Karmakar Sujit, PhD	Assistant Professor	Energy, Power Plant Engineering, CO2 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

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
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, Finte-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.pramanik@me.nitdgp.ac.in
Puri Asitbaran, PhD	Associate Professor	Non-conventional Machining Processes	asitbaran.puri@me.nitdgp.ac.in abpuri2000@yahoo.co.in
Rana Subhash Chandra	Assistant Professor	CFD	subhas.rana@me.nitdgp.ac.in
Roy Shibendu Shekhar, PhD	Assistant Professor	Mobile Robot, Soft Computing	shibendushekhar.roy@me.nitdgp.ac.in ssroy@nitdgp.ac.in
Saha Anup Kumar, PhD	Professor Biomechanics	Vehicle Dynamics, Machine Dynamics, Bond graph Modeling,	anupkumar.saha@me.nitdgp.ac.in saha_ak2001@yahoo.co.in
Department of Metallurgical & Materials Engineering			
Bera Supriya, PhD	Assistant Professor	Physical Metallurgy, Powder Metallurgy, Metallurgical Thermodynamics	supriyabera@gmail.com
Bhattacharyya Asish, PhD	Associate Professor	Foundry, Mechanical Testing, Nano-Composites	profab@mms.nitdgp.ac.in abnitd@yahoo.co.in
Chakraborty Rajib	Associate Professor	Agglomeration, Direct Reduction	profrajivc@mms.nitdgp.ac.in rajiby2k1@yah00.com
Ganguly Amit, PhD	Professor	Iron & Steel Technologies & Technology management with Business -Driven R&D	ganguly_amit11@hotmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Ghosh Karuna Sindhu, PhD	Associate Professor	Corrosion, Physical Metallurgy, Welding	karunasindhu.ghosh@mms.nitdgp.ac.in ksghosh2001@yahoo.co.uk
Ghosh Madan Mohan, PhD	Assistant Professor	Deformation, Heat Treatment, Materials Modeling	mmgnitd@gmail.com
Maity Joydeep, PhD	Associate Professor & Head	Diffusion, Phase Transformation, heat treatment and transient Liquid Phase Bonding	joydeep.maity@mms.nitdgp.ac.in joydeep_maity@yahoo.co.in
Mallik Manab, PhD	Assistant Professor	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, PhD	Assistant Professor	Physical Metallurgy, Mathematical Modelling	manas.mandal@mms.nitdgp.ac.in manas_nitdgp@yahoo.co.in
Pramanik Susanta, PhD	Assistant Professor	Iron Making & Steel Making	susanta.pramanik@mms.nitdgp.ac.in sus_met@yahoo.com
Ray Rabindranath	Associate Professor	Mathematical Modelling, Transport Phenomena, Thermodynamics	profrnr@mms.nitdgp.ac.in rnray_mete@yahoo.co.in
Show Bijay Kumar, PhD	Assistant Professor	Mechanical behaviour of metals, Microalloyed steel, X-Ray Diffraction	bijay.show@mms.nitdgp.ac.in bijayshow@gmail.com
Mandal Durbadal, PhD	Assistant Professor	Solidification, Alloy Development, MMCs	durbadal73@yahoo.co.in
Maji Barnali, PhD	Assistant Professor	Foundry Technology	barnali.maji@mme.nitdgp.ac.in barnali.maji04@gmail.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Department of Physics			
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
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-flim Technology, Conducting polymers, Nanocomposites	ajit.meikap@phy.nitdgp.ac.in ak_meikap@yahoo.com

Name	Designation	Areas of Research Interest	Email id (Institute & other id)
Mondal Aniruddha Ph D	Assistant Professor (on contract)	Optoelectronics And Nanotechnology, Glancing Angle Deposition Technique,Optical Detector, Sensors	aniruddha.mondal@phy.nitdgp.ac.in,aniruddhamo@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, 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

Department of Training Placement and Students' Welfare

Sl.No	Name	Department	Designation	Date of Joining
	Nil			

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

Sl.No	Name	Department	Designation	Date of retirement/ Resignation
1	Chakraborty Rajib	MME	Assot. Prof.	30.09.2015
2	Chakraborty B.N	Humanities	Professer	30.09.2015

Annexure-11.6(a) List of Officers

Registrar	Nijjar A.S (Brig.)
Deputy Registrar	Chattopadhyay Aloke Kr. Kumar Asit Mukherjee Uday Chandra Ray Dhrubajyoti
Assistant. Registrar	Bhattacharya Sayan Das Ashutosh MondalDebasish Sardar Amiya Kumar
Executive Engineer	HaldarTanmay
Administrative Officer	Sinha Sanat Kumar
Physical Training Instructor	Mukherjee Hillol
Library	
Librarian	Vacant
Deputy Librarian	Tondur C.R
Assistant Librarian	Kumar Jitendra
Workshop	
Superintendent	Vacant
Technical Officer	Dutta Goutam R.N. Krishnaraj Saha Santosh Kr.
Medical Unit-cum-Hospital	
Senior Medical Officer	Sarkar Banhi Kumar (Dr.)
Medical Officer(s)	PatraSucharita (Dr.) Pravabati G.(Dr.)
Estate Section	
Security Officer	BhagatAjit Kumar

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

Registrar	1	1
Dy. Registrar	4	4
Asstt. Registrar	7	4
Librarian	-	vacant
Dy. Librarian	1	1
Assistant Librarian	1	1
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	3
Superintendent Engineer	1	vacant
Executive Engineer(Elect/Civil)	2	1
Senior Medical Officer	1	1
Medical Officer	2	2
Security Officer	1	1
Physical Training Inst.	-	1
Administrative Officer	-	1
	29	21

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

	Sanctioned	In position
1.	Cleaner	01
2.	Driver	01
3.	Dup. Machine Operator	01
4.	Head Asstt.	01
5.	Hostel Cook	02
6.	Laboratory Assistant	02
7.	Laboratory Attendant	04
8.	Library Assistant	01
9.	LDA/Jr. Assistant	27
10.	Mali	01
11.	Mazdoor	01
12.	Office Peon/Helper	25
13.	Pharmacist	01
14.	Staff Nurse	02
15.	Sweeper	05
16.	Skilled Staff	07
17.	Technical Assistant	41
18.	Technician	03
19.	UDC/Senior Assistant	14
20.	Watchman	02
21.	Workshop Asstt.	01

Annexure-11.6(d) New Recruitment of Staff

Sl.No	Name	Department	Designation	Date of Joining
01	Kumar Jitendra	Library	Assistant Librarian	24.04.2015
02	NijjarAmardeep Singh(Brig.)		Registrar	29.07.2015
03	Prabhavati G(Dr.)	Medical Unit	Medical Officer	13.04.2015
04	Saha Santosh Kr.	Registrar Office	Tech. Officer	18.06.2015
05	TondurChandramohon R.	Library	Dy.Librarian	01.06.2015

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

Sl.No	Name	Department	Designation	Date of Joining
4	Banerjee DebokiGopal	ME	Draftsman	31.08.2015
3	Das Probodh Kr.	Estate	UDA	31.07.2015
8	DebnathMayadevi	Academic	Helper	29.02.2016
9	Ghosh Aparna	Medical Unit	Staff Nurse	31.03.2016
6	MajiBalaram	Medical Unit	Staff Nurse	31.12.2015
1	P.S.Sandhu(Col.)	-	Registrar	30.04.2015
5	Pan Atul	Chemical Engg.	Lab. Atted.	30.11.2015
2	Pathak Janaki	Library	Helper	31.05.2015
7	Roy Gopal Ch.	ME	Tech. Asstt.	29.02.2016

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 2015-16

Department of Chemical Engineering

Name of the faculty	Name of the Programme	Date of the programme
Prof C. M. Narayanan	Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering, Durgapur,	October 02 – 04, 2015
Prof C. M. Narayanan	National Symposium on Multiphase Flow, Durgapur	February 22-24, 2016.
Prof C. M. Narayanan	All India Seminar on Environmental Impact Assessment of Chemical and Allied Industries for Sustainable Development and Climatic Change, Calcutta	May 6 – 7, 2016
Dr. Bimal Das	Workshop on Industry-Academia Workshop on " Instrumentation and Control", IOCL, Petrofed & IOCL, Haldia	18, April,2015
Dr. Bimal Das	10th Summer School Program on " Petroleum Refining Petrochemicals"	1-5 June, 2015

Department of Chemistry

SL. No	Name	Name of the Programme	Organized by	Date of the programme
1	Saha T. K	National Seminar on "Design, Synthesis, Interactions, Chemical and Biochemical Activities of Different Functional Molecules"	Dept. of Chemistry, University of Burdwan.	4 th -6 th February, 2016.
2	Moi, S.C.	National workshop on "Basic Aspects of Quantum and Theoritical Chemistry and Applications (BAQTCA 2015)"	Government PG College Tonk in collaboration with Poornima University, Jaipur, Rajasthan	17-21st August, 2015
3	Moi, S.C.	1-Week Hands-on Workshop on Human/Cancer Cell Culture Techniques and MTT Asay	International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India	22-28th June, 2015
Department of Civil Engineering				
1	Banik, A.K.	Computational Fluid Dynamics (CFD 2015).	Applied Mechanics Department, MNIT Allahabad	Jun2 22-June 26, 2015
2	Das, D.	Short Term Course on "Principles of Vibration Control"	IIEST Shibpur	June 22- 26, 2016
3	Datta, A.K.	Int. Conf. on Innovations in Structural Engineering IC-ISE-2015	Osmania University, Hyderabad	December 14-16, 2015.
4	Roy, P.	QIP STC on Coastal Engineering: Basics, Design and Application	IIT Bombay	May 04- 08, 2015
5	Roy, P.	TEQIP II sponsored short term course on Principles of Vibration Control	IIEST Shibpur	June 22- 26, 2015
6	Roy, P.	ISTE STTP for workshop coordinators on "Introduction to Structural Engineering"	IIT Kharagpur	September 28-October 02, 2015
7	Singha Roy, D.K.	Recent Advances in Structural Engineering (RASE-2015)	CSIR-Structural Engineering Research Centre, Chennai	07.05.2015 – 08.05.2015
8	Singha Roy, D.K.	Emerging Building Materials and Construction Technologies	Building Materials & Technology Promotion Council, Ministry of Housing & Urban Poverty Alleviation, GOI, New Delhi	21.03.2016 – 22.03.2016

SL. No	Name	Name of the Programme	Organized by	Date of the programme
9	Topdar, P.	Int. Conf. on Innovations in Structural Engineering IC-ISE-2015	Osmania University, Hyderabad	December 14-16, 2015.
Department of Computer Science and Engineering				
1.	Sen, B.	Two Week ISTE STTP on Introduction to Design of Algorithms	IIT KGP	May 25-30, 2015
2.	Roy, S.	Two Week ISTE STTP on Introduction to Design of Algorithms	IIT KGP	May 25-30, 2015
3.	De, T.	Two Week ISTE STTP on Introduction to Design of Algorithms	IIT KGP	May 25-30, 2015
4.	Roy, S.	Leadership and Management development Programme for universities and colleges	Leadership Foundation for Higher education, UK and UKIERI, British Council.	February 2015
Department of Electrical Engineering				
1	Banerjee S	3rd World Summit on Accreditation	NBA	18-20, March, 2016
2	Saha T K	6th World Renewable Energy Technology Congress-2015	Energy and Environment Foundation & MHRD, India	21-23 August, 2015
Department of Electronics and Communication Engineering				
1	Kundu.Sumit	International Symposium on Wireless Personal Multimedia Communications (WPMC)	IEEE Hyderabad Section & Global ICT Standardization Forum for India (GISFI)	13 Dec - 16 Dec 2015
2	Kundu Sumit	World Summit on Accreditation Gurgaon	National Board of Accrediatation	18th to 20th March 2016
Department of Information Technology				
1	Mukhopadhyay, S.	Large Scale Complex Network Analysis	ISI Kolkata	December 19-20, 2015.
Department of Mathematics				
1	Dey, L.K.	International Conference on Nonlinear Dynamics, Analysis and Optimization	Department of Mathematics, Jadavpur University, Kolkata, West Bengal, India.	9-11 December, 2015
2	Pal, A.	in National Conference on Emerging Trends in Mathematics and Mathematical Sciences NCETMMS 2015	Calcutta Mathematical Society	Dec 17-19, 2015

SL. No	Name	Name of the Programme	Organized by	Date of the programme
Department of Mechanical Engineering				
1	Das Asim Kumar	STC on MATLAB, a Tool in Research	MNIT, Jaipur	Dec 24-28, 2015
2	Das Asim Kumar	STC on Computational Techniques for Differential Equations	SVNIT, Surat	May 02-06, 2016
3	Hui N. B.	INUP Familiarization Workshop	IISC Bangalore and IIT Patna	8-9 October 2015
Department of Metallurgical and Materials Engineering				
1	Mandal. D	National Conference on "Thermo-mechanical Processing of Steels,	CSIR NML & IIM Jamshedpur Chapter	6th - 7th Aug 2015
2	Mondal. M. K.	International Seminar on Innovative Technologies for Clean, Green & Automated Steel Plants: A Better Tomorrow	Steel Tech, Kolkata & NIT Durgapur	10th-11th Sept 2015
3	Ghosh M.M	Workshop on "Interface Related Mechanical Behavior of Materials - II"	Indian Institute of Science, Bangalore, India	Nov. 27-28, 2015
Department of Physics				
1	Basu S.	Workshop: Two-Week workshop on Engineering Physics under the mission on Education through ICT	NIT Durgapur	December 08 – 18, 2015
2	Chaudhuri H.	Seminar : Prof. M. S. Sinha Colloquium	Physics Department, NIT Durgapur	March 04, 2016
3	Chaudhuri H.	Short Term Course : Renewable Energy Materials and Technology in Academia and Industry	Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand	March 01-02, 2016
4	Chaudhuri H.	Conference: International Conference on 4th Complex Dynamical Systems and Application (CDSA 2016),	NIT Durgapur	February 15-17, 2016
5	Chaudhuri H.	Workshop: Two-Week workshop on Engineering Physics under the mission on Education through ICT	NIT Durgapur	December 08 – 18, 2015
6	Chaudhuri H.	Workshop: Earthquake Hazard: Basic Approaches, Field Investigations and Modelling	Sri Mata Vaishno Devi University, Katra, J&K and IISER Kolkata	November 10 - 16, 2015
7	Chaudhuri H.	Conference: International Conference 10 yrs IGRS: 8th Dresden Symposium-Hazard Detection and Management	Dresden University of Technology and SARAD GmbH, Germany	August 31, 2015 to September 04, 2015

SL. No	Name	Name of the Programme	Organized by	Date of the programme
8	Chaudhuri H.	Workshop: Sub-committee meeting on Geothermal Energy	Geological Survey of India, Northern Region, Lucknow	July 09-11, 2015
9	Kumbhakar P.	One Week ISTE STTP for Coordinators on "Engineering Physics"	IIT Bombay under National Mission on Education through ICT (NMEICT), MHRD, Govt. of India)	Sept. 7-11, 2016
10	Kumbhakar P.	Leadership and Management Development Programme	The Leadership Foundation for Higher Education onbehalf of UKIERI at New Delhi	Feb. 8-12, 2016
11	Mandal M.K.	Workshop: Two-Week workshop on Engineering Physics under the mission on Education through ICT	NIT Durgapur	December 08 – 18, 2015
12	Meikap A. K.	4th International Conference on "Advanced Nanomaterials & Nanotechnology (ICANN-2015)"	Indian Institute of Technology Guwahati, Guwahati – 781039,	December 8-11, 2015
13	Meikap A. K.	National Seminar "60th DAE-Solid State Physics Symposium (DAE-SSPS-2015)"	Amity University UP, Noida, Uttar Pradesh	December 21-25, 2015
14	Meikap A. K.	One day Symposium on "Functional Materials: Recent Trends"	Department of Physics, Presidency University, Kolkata	29th January, 2016
15	Meikap A. K.	4th National Conference on "Materials, Devices and Circuits in Communication Technology (MDCCT 2016)"	University of Burdwan, Burdwan, West Bengal	February 19-20, 2016
16	Mondal A.	Workshop: Two-Week workshop on Engineering Physics under the mission on Education through ICT	NIT Durgapur	December 08 – 18, 2015
17	Sahoo, S.	Seminar on "Advances in Physics during the last half century and its applications to society".	Gangadhar Meher University, Sambalpur, Odisha	February 27 – 28, 2016
18	Sahoo S.	Seminar on "Recent Trends in Physics (RTP–2016)"	Maharshi College of Natural Law, Saheed Nagar, Bhubaneswar, Odisha	February 13–14, 2016

SL. No	Name	Name of the Programme	Organized by	Date of the programme
19	Sahoo S.	Workshop on Engineering Physics under the National Mission on Education through ICT (MHRD, Govt. of India)	NIT Durgapur	December 08 – 18, 2015
20	Sahoo S.	National Conference on "Current Issues in Cosmology, Astrophysics and High Energy Physics (CICAHEP-2015)"	Dibrugarh University, Assam, India	November 02–05, 2015

Annexure – 11.7(c) Training of staff members during 2015-16

None

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 Part Time (Day)	2 years 3 years	23
Civil Engineering (Structural Engineering)	1971	Full Time	2 years	23
		Part time (Day)	3 years	
Chemistry (Corrosion Science & Technology)	1996	Full Time Part time (Day)	2 years 3 years	23
Computer Science & Engineering (Information Technology)	2004	Full Time	2 years	23
Electrical Engineering (Electrical System)	1969	Full Time Part time (Day)	2 years 3 years	23
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 Part time (Day)	2 years 3 years	23
Mechanical Engineering (MD)	1966	Full Time Part time (Day)	2 years 3 years	23
Metallurgical Engineering (MT)	1966	Full Time Part time (Day)	2 years 3 years	23
Entrepreneurship and Innovation (EI)	2015	Full Time	2years	20
Physics (Advanced Materials Science & Technology)	2006	Full Time	2 years	23
Civil Engineering (GE)	2014	Full Time	2 years	20
Electrical Engineering (PEMD)	2014	Full Time	2 years	20
Mechanical Engineering (FMHT)	2014	Full Time	2 years	20
Mechanical Engineering (TE)	2014	Full Time	2 years	23
High Performance Computing (HC)	2014	Full Time	2years	20
Computer Application (Software Engineering)	2011	Full Tme	2 years	20

Dept. / Specialisation	Year of Starting	Full / Part time	Duration	Sanctioned Intake
Other programmes:				
Management Studies (MBA)	2004	Full Time	2 Years	60
Computer Applications (MCA)	2000	Full Time	3 Years	92
Physics (M. Sc. in Physics)	2009	Full Time	2 Years	20
Chemistry (M. Sc. in Chemistry)	2009	Full Time	2 Years	20
Mathematics (M. Sc. in Mathematics with Computer Applications))	2010	Full Time	2 Years	20

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

11.8. (b).1. Enrolment in B.Tech programmes, 2015-2016 (Genderwise):

Enrolment of Indian students in odd semesters of B. Tech. courses, 2015 - 2016 Genderwise:

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech I	76 23	62 9	59 15	85 23	96 27	89 20	92 27	139 2	79 20	777 166
	22	14	08	23	27	20	26	02	20	162
B.Tech III	78	55	61	91	95	91	93	139	79	782
	29	12	7	23	21	14	23	4	16	149
B.Tech V	80	63	67	94	93	96	88	141	74	796
	18	16	4	16	20	15	15	2	9	115
B.Tech VII	73	61	50	89	87	83	90	131	71	735
	18	11	2	17	20	10	16	2	7	103
Total	3	6	29	25	21	19	1	54	1	159
	1	5	7	9	7	5	1	6	0	41

Number of female students should be given in the 2nd line in each row. The total number is inclusive of the number of girl students

Enrolment of Indian students in even semesters of B. Tech. courses, 2015-2016 Genderwise

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech II	74	58	55	83	95	87	88	136	76	752
	22	14	08	23	27	20	26	02	20	162
B.Tech IV	78	55	61	91	95	91	93	139	79	782
	29	12	7	23	21	14	23	4	16	149
B.Tech VI	80	63	67	94	93	96	88	141	74	796
	18	16	4	16	20	15	15	2	9	115
B.Tech VIII	73	61	50	89	87	83	90	131	71	735
	15	11	2	17	20	10	16	2	7	103
Total	323	243	245	370	366	365	367	550	300	3129
	95	58	16	76	86	55	88	12	47	533

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, 2015-2016 Genderwise

Enrolment of foreign students in even semesters of B. Tech. courses, 2015 – 2016 Gender wise :

Semester	BT	ChE	CE	CSE	ECE	EE	IT	ME	MME	Total
B.Tech II	1	0	0	10	3	2	0	2	0	18
	1	0	0	3	1	1	0	0	0	6
B.Tech IV	1	0	6	10	7	4	0	15	0	43
	0	0	2	5	3	1	0	2	0	13
B.Tech VI	0	0	12	4	8	5	0	22	0	51
	0	0	3	0	2	0	0	1	0	6
B.Tech VIII	1	1	5	1	2	7	1	9	1	28
	0	1	1	0	0	4	1	1	0	8
Total	3	6	29	25	21	19	1	54	1	159
	1	5	7	9	7	5	1	6	0	41

Number of female students indicated in parantheses. The total number is inclusive of the number of girl students

11.8. (b). 2. Enrolment in B.Tech programmes, 2015-2016 (Category wise):

Enrolment of Indian Students in odd semesters of B. Tech. Courses, 2015-2016 (Category wise):

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	8	6	18	76	40	10	5	24	79	30	14	4	31	79	38	10	4	24	76
ChE	40	7	4	11	62	32	6	5	18	61	26	8	4	17	55	33	7	6	17	63
CE	32	8	5	14	59	33	9	2	19	63	29	12	4	21	66	32	11	4	18	65
CSE	51	7	7	20	85	49	15	7	25	96	43	13	7	26	89	46	14	6	28	94
ECE	48	15	5	28	96	44	14	6	26	90	44	15	6	27	92	47	13	7	26	93
EE	54	13	5	17	89	44	13	7	28	92	39	13	7	32	91	45	17	8	27	97
IT	53	13	3	23	92	46	13	6	23	88	45	14	7	23	89	46	12	5	25	88
ME	70	23	10	36	139	65	17	11	39	132	66	23	8	47	144	69	15	9	37	130
MME	41	12	5	21	79	37	12	5	19	73	35	13	4	25	77	37	10	6	20	73
Total	433	106	50	188	777	390	109	54	221	774	357	125	51	249	782	393	109	55	222	779

Enrolment of Indian Students in even semesters of B. Tech. Courses, 2015-2016 (Category wise):

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	36	12	8	18	74	39	10	5	23	77	30	14	4	31	79	38	10	4	24	76
ChE	30	6	4	18	58	32	6	5	17	60	26	8	4	17	55	33	7	6	17	63
CE	26	9	5	15	55	33	9	2	19	63	29	12	4	21	66	32	11	4	18	65
CSE	43	11	7	22	83	49	15	7	25	96	30	8	7	21	66	47	14	6	28	95
ECE	46	15	7	26	94	44	14	6	26	90	44	15	6	27	92	47	13	7	26	93
EE	45	13	6	23	87	44	13	7	27	91	39	13	7	32	91	44	17	8	27	96
IT	44	14	6	24	88	44	13	6	23	86	45	14	7	23	89	46	12	5	25	88
ME	66	21	11	38	136	65	17	10	38	130	66	23	8	47	144	69	15	9	37	130
MME	34	13	6	22	75	36	12	5	19	72	36	13	4	25	78	37	10	6	20	73
Total	370	114	60	206	750	386	109	53	217	765	345	120	51	244	760	393	109	55	222	779

11.8. (b). 3. Enrolment in M. Tech. & M. Sc. Programmes, 2015-2016 (Gender wise)

Semester	BT	CH	CY	CE (SU)	CE (GT)	CS	CC (HPC)	CA (SW)	EE (PS)	EE (PMD)	EC (TE)	EC (VL)
M.Tech I &II	23 (10)	22 (7)	9 (2)	20 (4)	23 (4)	29 (9)	10 (4)	23 (8)	16 (0)	17 (3)	28 (7)	25 (3)
M.Tech III & IV	2 8 (10)	2 6 (8)	2 (0)	19 (2)	13 (1)	27 (7)	15 (6)	25 (9)	13 (3)	11 (0)	30 (6)	26 (5)
M.Tech V & VI									4 (2)			
M.Sc I &II			14 (4)									
M.Sc III & IV			27 (9)									

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

Semester	ES	HSS(EI)	IT	MA(OR)	ME(MD)	FMHT)	ME(TL)	MT	IM	H(AMS)	TOTAL	EC (VL)
M.Tech I &II	12 (2)	11 (3)	26 (9)	11 (3)	24 (5)	15 (0)	20 (1)	15 (2)	_	15 (1)	312 (87)	
M.Tech III & IV	18 (4)	_	24 (5)	11 (2)	12 (1)	_	_	8 (4)	3 (1)	17 (0)	260 (74)	
M.Tech V & VI				2 (0)	5 (0)			1 (0)	1 (0)		11 (2)	
M.Sc I &II				11 (2)						15 (5)	29 (11)	
M.Sc III & IV				20 (6)						13 (3)	42 (18)	

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

11.8. (b). 4. Enrolment in M. Tech. & M. Sc. Programmes, 2015– 2016 (Caste wise)

Dept./ Year	I & II					III & IV					V & VI				
	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
BT	11 (9)	2 (1)	_	_	13 (3)	12 (6)	2 (2)	1 (0)	3 (2)	18 (10)					0
CH	9 (3)	4 (2)		2 (2)	15 (7)	15 (7)	1 (0)		2 (1)	18 (8)					0
CY	6 (2)	1 (0)			7 (2)	2 (0)				2 (0)					0
CE (SU)	8 (3)	2 (0)	1 (0)	5 (1)	16 (4)	10 (1)	2 (1)	1 (0)	4 (0)	17 (2)					0
CE (GT)	11 (2)	1 (0)	1 (0)	6 (2)	19 (4)	7 (1)	1 (0)		4 (0)	12 (1)					0
CS	7 (3)	4 (1)	1 (1)	8 (4)	20 (9)	11 (5)	3 (1)	1 (1)	5 (0)	20 (7)					0
CA (SW)	11 (6)	3 (1)	1 (1)		15(8)	8 (7)	1 (0)		7 (2)	16 (9)					0
CC (HPC)	8 (4)	2 (0)			10 (4)	9 (3)	2 (2)		4 (1)	15 (6)					
EE (PS)	8 (0)	4 (0)		4 (0)	16 (0)	9 (2)			1 (1)	10 (3)	2 (2)				2 (2)
EE(PMD)	7 (1)	3 (0)	1 (1)	3 (1)	14 (2)	7 (0)	1 (0)		3 (0)	11 (0)					0
EC (TE)	11 (3)	3 (2)	6 (2)	1 (0)	21 (7)	14 (5)	3 (0)	1 (0)	6 (1)	24 (6)					0
EC (VL)	10 (2)	3 (0)	1 (0)	8 (1)	22 (3)	11 (5)	3 (0)	1 (0)	6 (0)	21 (5)					0
ES	9 (2)	1 (0)			10 (2)	7 (4)	3 (0)	1 (0)	3 (0)	14 (4)					0
HSS (EI)	5 (3)	2 (0)		1 (0)	8 (3)					0					0
IT	9 (5)	7 (3)	1 (1)		17 (9)	11 (4)	3 (0)		5 (1)	19 (5)					0
MA (OR)	5 (1)	3 (2)		1 (0)	9 (3)	5 (2)	1 (0)		3 (0)	9 (2)	2 (0)				2 (0)
ME (MD)	13 (4)	2 (0)		4 (1)	19 (5)	5 (1)	1 (0)		3 (0)	9 (1)	4 (0)			1 (0)	5 (0)
ME (FMHT)	8 (0)	2 (0)		5 (0)	15 (0)					0					0
ME (TL)	11 (1)	2 (0)	1 (0)	5 (0)	19 (1)					0					0
MT	9 (1)	2 (0)	1 (1)	1 (1)	13 (2)	1 (1)	2 (2)		1 (1)	4 (4)	1 (0)				1 (0)
IM														1 (0)	1 (0)
PH (AMS)	10 (1)	2 (0)		2 (0)	14 (1)	10 (0)	1 (1)		6 (0)	17 (0)					0
Total	186 (55)	55 (12)	15 (7)	56 (13)	302 (76)	154 (54)	30 (9)	6 (1)	66 (10)	241 (67)	9 (2)	0	0	2	11 (2)

* 1 QIP (Poly)
$ 2 Foreign students
Number of Female students indicated in parenthesis

11.8. (b). 5. Enrolment in MCA programmes, 2015-2016 (Gender wise)

	I & II Semester	III & IV Semester	V & VI Semester
Master of Computer Applications			
(MCA)	72 (22)	65 (20)	84 (21)

11.8. (b). 6. Enrolment in MCA programmes, 2015–2016 (Caste wise)

Dept	MCA I & II					MCA III & IV					MCA V & VI				
	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
MCA	33 (14)	11 (0)	5 (2)	23 (6)	72 (22)	37 (13)	8 (1)	2 (1)	18 (5)	65 (20)	42 (14)	12 (2)	7 (1)	23 (4)	84 (21)

11.8. (b) 7. Enrolment in MBA programmes, 2015-2016 (Gender wise)

	I & II Semester	III & IV Semester
Master of Business Administration		
(MBA)	30 (14)	37 (15)

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

11.8. (b). 8. Enrolment in MBA programmes, 2015-2016 (Caste wise)

Dept	MBA I & II					MBA III & IV				
	OP	SC	ST	OBC	TOTAL	OP	SC	ST	OBC	TOTAL
MBA	14 (6)	8 (4)	2 (2)	6 (2)	30 (14)	24 (11)	2 (0)	2 (1)	9 (3)	37 (15)

11.8 (b). 9. Enrolment of Research Scholars for PhD during 2015–2016 (Full time & Part time):

SL. NO.	Branch of Research Study	Gender Break Up		Caste Break Up				Total
		Male	Female	OP	SC	ST	OBC	
1	Biotechnology	4	10	10 (6)	2 (2)		2 (2)	14
2	Chemical Engineering	10	9	13 (8)	3 (0)		3 (1)	19
3	Chemistry	9	2	6 (1)	2 (0)		3 (1)	11
4	Civil Engineering	12	5	13 (3)	2 (1)		2 (1)	17
5	Computer Applications	3	0	3 (0)				3
6	Computer Science & Engineering	10	7	15 (7)	1 (0)		1 (0)	17
7	Earth & Environmental Studies	2	0	1 (0)			1 (0)	2
8	Electrical Engineering	11	4	13 (4)	1 (0)		1 (0)	15
9	Electronics & Communications Engineering	13	4	13 (4)	1 (0)		3 (0)	17
10	Humanities & Social Sciences	11	4	13 (4)	1 (0)		1 (0)	15
11	Information Technology	13	3	14 (3)			2 (0)	16
12	Management Studies	12	2	13 (2)			1 (0)	14
13	Mathematics	12	5	15 (5)	1 (0)		1 (0)	17
14	Mechanical Engineering	15	1	10 (0)	4 (1)		2 (0)	16
15	Metallurgical & Materials Engineering	8	0	5 (0)	2 (0)		1 (0)	8
16	Physics	10	3	9 (3)	2 (0)		2 (0)	13
	Total	155	59	166 (50)	22 (4)	0	26 (5)	214

Foreign student = 01 in Civil Engineering

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 2015-2016

SL.NO.	STATE	RURAL					URBAN					Overall Total
		OP	OB	SC	ST	TOTAL	OP	OB	SC	ST	TOTAL	
1	Andhra Pradesh	25	8	7	1	41	29	13	5	5	52	93
2	Arunachal Pradesh					0					0	0
3	Assam	0	0	4	1	5	5	1	0	1	7	12
4	Bihar	26	33	9	1	69	24	16	8	0	48	117
5	Chattisgarh	1	0	0	1	2	1	1	0	1	3	5
6	Delhi					0	1				1	1
7	Chandigarh					0					0	0
8	Goa					0					0	0
9	Gujarat	0	0	0	0							
0												
	1	0	1	0	2	2						
10	Haryana	0	0	1	0	1	0	0	0	0	0	1
11	Himachal Pradesh					0					0	0
12	Jammu & Kashmir					0					0	0
13	Jharkhand	1	2	1	3	7	3	0	2	0	5	12
14	Karnataka	0	0	1	0	1	1	0	0	0	1	2
15	Kerala					0					0	0
16	Madhya Pradesh	3	0	0	0	3	0	0	0	0	0	3
17	Maharashtra	0	0	1	0	1	0	1	0	0	1	2
18	Manipur	0	0	0	1	1	0	0	0	0	0	1
19	Meghalaya					0					0	0
20	Mizoram					0					0	0
21	Nagaland					0					0	0
22	Odisha	3	0	0	2	5	10	0	0	0	10	15
23	Punjab					0					0	0
24	Rajasthan	4	1	4	2	11	3	4	2	3	12	23

SL.NO.	STATE	RURAL					URBAN					Overall Total
25	Poducheri		1			1	1				1	2
26	Sikkim	0	0	0	0	0	0	0	0	0	0	0
27	Tamil Nadu					0					0	0
28	Telengana	6	3	4	6	19	9	2	1	1	13	32
29	Tripura					0					0	0
30	Uttar Pradesh	8	7	3	1	19	16	9	10	0	35	54
31	Uttarakhand					0					0	0
32	West Bengal	28	44	21	14	107	158	61	36	17	272	379
33	Andaman & Nicobar	3	2	0	0	5	8	2	4	2	16	21
34	Afganisthan					0	1				1	1
35	Bangladesh					0	2				2	2
36	Nepal	1				1					0	1
37	Srilanka					0	1				1	1
38	France					0	1				1	1
39	UAE					0	3				3	3
40	OMAN					0	2				2	2
41	SWITZERLAND					0	1				1	1
42	SAUDI ARABIA					0	1				1	1
43	TAJIKISTAN					0	1				1	1
44	PAKISTAN					0	1				1	1
45	IRAN					0	1				1	1
46	MOROCCO					0	1				1	1
47	MALDIVES					0	1				1	1
	TOTAL	**109**	**101**	**56**	**33**	**299**	**287**	**110**	**69**	**30**	**496**	**795**

11.8 (c) 2. The ranks (AIR) obtained by the first and the last candidates admitted to B. Tech. programmes during 2015-2016

SL. No.	STATE	OP		OB		SC		ST	
		1ST	LAST	1ST	LAST	1ST	LAST	1ST	LAST
1	Andhra Pradesh	6944	50067	12762	64925	57968	179553	3330	250265
2	Arunachal Pradesh	-	-	-	-	-	-	-	-
3	Assam	7788	19529	18979	-	68420	122589	140318	120113
4	Bihar	6923	108869	10513	234486	43170	1222931	50893	-
5	Chatishgarh	14127	15048	24530	-	1E+05	105951	-	-
6	Chandigarh	-	-	-	-	-	-	-	-
7	Goa	-	-	-	-	-	-	-	-
8	Gujarat	45824	-	-	-	121467	-	-	-
9	Haryana	-	-	22117	-	165884	-	-	-
10	Himachal Pradesh	-	-	-	-	-	-	-	-
11	Jammu & Kashmir	-	-	-	-	-	-	-	-
12	Jharkhand	18480	-	16870	580187	64216	158408	60800	808158
13	Karnataka	23703	-	-	-	2E+07	-	-	-
14	Kerala	NIL	-	-	-	-	-	-	-
15	Madhya Pradesh	13776	32927	-	-	-	-	-	-
16	Maharashtra	16116	-	23564	-	97021	-	-	-
17	Manipur	-	-	-	-	-	-	133642	-
18	Meghalaya	-	-	-	-	-	-	-	-
19	Mizoram	-	-	-	-	-	-	-	-
20	Nagaland	-	-	-	-	-	-	-	-
21	Odisha	13524	33516	67431	-	-	-	89169	-
22	Punjab	-	-	-	-	-	-	-	-
23	Rajasthan	19027	33345	21295	63404	63344	128452	98469	161942
24	Sikkim	-	-	108226	-	-	-	-	-
25	Tamil Nadu	-	-	-	-	-	-	-	-
26	Telengana	7107	22421	18686	49137	98831	-	85522	192390

SL. No.	STATE	OP		OB		SC		ST	
27	Tripura	-	-	-	-	-	-	-	-
28	Uttar Pradesh	7458	33260	11059	64486	66661	754995	-	149613
29	Uttarakhand	-	-	-	-	-	-	-	-
30	West Bengal	4660	525969	14200	516953	23114	234840	33942	667035
31	Andaman & Nicobar	18122	166521	32981	268001	3E+05	605958	365052	392377

11.8 (c) 3. The number of candidates admitted to B. Tech. programmes from various income groups during 2015-2016

Sl No.	STATE	Below Rs. 6000	Rs.6001-12000	Rs.12001-18000	Rs.18001-24000	Above Rs.24000	TOTAL
1	Andhra Pradesh			1		92	93
2	Arunachal Pradesh						
3	Assam				1	11	12
4	Bihar					117	117
5	Chattishgarh					5	5
6	Delhi					1	1
7	Chandigarh						
8	Goa						
9	Gujarat				1	1	2
10	Haryana					1	1
11	Himachal Pradesh						
12	Jammu & Kashmir						
13	Jharkhand				1	11	12
14	Karnataka		1			1	2
15	Kerala						
16	Madhya Pradesh				1	2	3
17	Maharashtra		1			1	2
18	Manipur					1	1
19	Meghalaya						

Sl No.	STATE	Below Rs. 6000	Rs.6001-12000	Rs.12001-18000	Rs.18001-24000	Above Rs.24000	TOTAL
20	Mizoram						
21	Nagaland						
22	Odisha				1	14	15
23	Punjab						
24	Rajasthan				7	16	23
25	Poducheri					2	2
26	Sikkim					0	0
27	Tamil Nadu						
28	Telengana				5	27	32
29	Tripura						
30	Uttar Pradesh				5	49	54
31	Uttarakhand						
32	West Bengal				11	368	379
33	Andaman & Nicobar					21	21
34	Afganisthan					1	1
35	Bangladesh					2	2
36	Nepal					1	1
37	Srilanka					1	1
38	France					1	1
39	UAE					3	3
40	OMAN					2	2
41	SWITZERLAND					1	1
42	SAUDI ARABIA					1	1
43	TAJIKISTAN					1	1
44	PAKISTAN					1	1
45	IRAN					1	1
46	MOROCCO					1	1
47	MALDIVES					1	1

11.8 (c) 4. The details of admission to the M. Tech. & M. Sc. programmes during 2015-2016

SL. NO.	Name of the Deptt.	Specialisations	Total
1	Biotechnology	M.Tech in Biotechnology	13
2	Chemical Engineering	M.Tech in Chemical Engineering	15
3	Chemistry	M.Tech in Corrosion Science & Technology	7
4	Civil Engineering	M.Tech in Structural Engineering	16
5	Civil Engineering	M.Tech in Geotechnical Engineering	19
6	Computer Science & Engineering	M.Tech in Computer Science & Engineering	20
7	Computer Application	M.Tech in Software Engineering	15
8	Computer Centre	M.Tech in High Performance Computing	10
9	Electrical Engineering	M.Tech in Power Systems	16
10	Electrical Engineering	M.Tech in Power Electronics & Machine Drives	14
11	Electronics & Communication Engineering	M.Tech in Telecommunication Engineering	21
12	Electronics & Communication Engineering	M.Tech in Microelectronics & VLSI	22
13	Earth & Environmental Studies	M.Tech in EM.Tech in Environmental Science & Technology	10
14	Humaniites and Social Sciences	M.Tech in Entrepreneurship and innovations	8
15	Information Technology	M.Tech in Information Technology	17
16	Mathematics	M.Tech in Operations Research	9
17	Mechanical Engineering	M.Tech in Machine Design	19
18	Mechanical Engineering	M.Tech in Fluid Mechanics and Heat Transfer	15
19	Mechanical Engineering	M.Tech in Thermal Engineering	19
20	Metallurgical and Materials Engineering	M.Tech in Metallurgy and Materials Technology	13
21	Physics	M.Tech in Advanced Material Science & Technology	14
22	Chemistry	M.Sc in Chemistry	10
23	Mathematics	M.Sc in Mathematics	9
24	Physics	M.Sc in Physics	10
25	Computer Application	MCA	72
26	Management Studies	MBA	30
		TOTAL	**443**

Annexure – 11.9(a) Scholarships & Stipends: 2015-2016

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 tudent	32
3	W.B.P.M.SCHOLARSHIP ST	STIPEND	19,500/- Per tudent	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	
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 2015-16

1. Prof. P. Pal received the Best Research Paper Award, 2015 by Springer
2. Prof. P. Pal received the Best Research Paper in Arsenic abatement technology 2015-16
3. Prof. P. Pal received the Outstanding Reviewer Award by Elsevier Science
4. Dr. D.R. Kisku honoured with IEEE Senior Membership by IEEE, USA, 2015.
5. Best Paper Award in 6th WRETC 2015; Title "Modelling, and Performance Analysis of a Controlled Cascaded Inverter Based Grid Connected PV System"
6. Mandal, S. K., Assistant Professor, Dept. of Electronics and Communication Engineering, NIT Durgapur received Young Faculty Research Fellowship under Visvesvaraya PhD Scheme for Electronics and IT for 2015-2016.
7. Kar, R., Assistant Professor, Dept. of Electronics and Communication Engineering, NIT Durgapur received Young Faculty Research Fellowship under Visvesvaraya PhD Scheme for Electronics and IT for 2015-2016.
8. Dr. P. Pal was INSA -nominated Indian scientist under INSA-DFG bilateral exchange programme 2015.

9. G. Khankari, J. Munda, and S. Karmakar won the poster session award for the research article "Power Generation from Condenser Heat Loss of Coal-fired Thermal Power Plant using Kalina Cycle" in the International Conference on Advanced Energy Research (ICAER 2015) as organized by IIT Bombay on 15-17 Dec, 2015.
10. 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.
11. Kumbhakar, P., Professor, Physics was honoured and achieved the award "IAPT-DSM Award" 2015, given by the Indian Association of Physics Teachers (IAPT) for his significant contribution in UG Physics Education.

Annexure–11.10 (a) Vocational training

SL.NO	NAME OF THE COMPANY	SL.NO	NAME OF THE COMPANY
1	D.V.C. Mejia	36	D.E.SHAW, Hyderabad
2	BSNL, Kolkata	37	TATA CUMMINS PVT. LTD
3	ECl, Bankola	38	IBM, Bangalore
4	Railway Liluah Workshop, Kolkata	39	Microsoft R&D
5	HMT Ranchi	40	Belzabar, Noida
6	SAIL-D.S.P.	41	Bokaro Steel Plant, Bokaro
7	N.T.P.C., Farakka	42	N.I.C Delhi
8	W.B.P.D.C.L.	43	TATA POWER, Pune
9	L&T INFOTECH	44	HAL Sunabeda
10	C.E.S.C.	45	C.L.W Chittaranjan
11	CCMB(HYDRABAD)	46	HPL
12	Maq Software, Hyderabad	47	Idea Cellular
13	VERSE(BANGALORE)	48	Reliance Industries
14	PERVACIO	49	Haldia Petrochemical
15	O.N.G.C .	50	Honda Cars
16	M.N. DASTUR & COMPANY (P) LTD	51	Reliance Jio
17	TATA MOTORS LTD.	52	JSL, Jajpur, Odissa
18	TATA STEEL LTD.	53	Schneider Electric
19	BRIDGE & ROOF COMPANY (INDIA)LTD	54	Ashok Leyland
20	SAIL – Bhilai Steel Plant	55	Fiat Automobiles
21	BARAUNI REEINERY TRAINING & DEVELOPMENT CENTRE	56	Aircell, Kolkata
22	Globsyn Skills and Development	57	LPG Recovery Plant, Gujarat
23	Oracle FSS	58	Tata Consulting Services, Kolkata
24	ACC	59	ESSAR OIL &GAS, Mumbai

SL.NO	NAME OF THE COMPANY	SL.NO	NAME OF THE COMPANY
25	BHEL, Hardwar	60	BCCL. Dhanbad
26	IOCL	61	EXIDE, Kolkata
27	Metro Railway, Kolkata	62	Hindustan Zinc Limited, Udaipur
28	Hyundai Motor	63	TML Drive lines Limited
29	L & T , SURAT	64	Verse Innovation Private Limited
30	Alloy Steels Plant, Durgapur	65	Shapoorji and Palonji, Kolkata.
31	VIZAG STEEL PLANT		
32	MARUTI SUZUKI INDIA LTD		
33	Hero Motor Corp		
34	DMRL (HYDERABAD)		
35	DRDO (HYDERABAD)		

Annexure–11.10(b) Placement statistics during 2015 – 2016

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
			B.Tech									
			BT	CHE	CIV	CSE	ECE	EE	IT	ME	MME	TOTAL
Sharing slot												
1	WIPRO	1,2.9.2015	4	5	5	19	19	11	10	5	4	82
1	WIPRO	1,2.9.2015	4	5	5	19	19	11	10	5	4	82
2	INFOSYS	3,4.9.2015	24	22	9	14	20	25	21	30	14	179
3	IBM	7,8.9.2015	-	20	10	18	23	16	14	19	-	120
Branchewise Core Sector												
4	MAQ SOFTWARE	PPO	-	-	-	9	-	-	3	-	-	12
5	PAYU	PPO	-	-	-	4	-	-	2	-	-	6
6	MICROSOFT	20,23,24.7.15	-	-	-	4	-	-	1	-	-	5
7	ENDURANCE(DirectI)	27.7.2015	-	-	-	2	1	-	-	-	-	3
8	ITC PCPB	31.7.2015	-	-	-	-	-	-	-	1	-	1
9	D. E. SHAW	31.7/1,2.8.2015	-	-	-	2	-	-	1	-	-	3
10	LISTER TECHNOLOGIES	3.8.2015	-	-	-	1	1	1	2	-	-	5
11	C-DOT	30.7.2015	-	-	-	0	1	-	-	-	-	1
12	FUTURES FIRST	4.8.2015	0	0	0	0	1	0	0	0	0	1
13	DRISHTI-SOFT SOLUTIONS	5,14,15.8.2015	-	-	-	1	1	-	2	-	-	4

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
14	INCTURE TECHNOLOGIES	6.8.2015	-	-	-	2	2	-	0	-	-	4
15	NOVELL SOFTWARE	10,11.8.2015	-	-	-	2	0	-	3	-	-	5
16	GROFERS INDIA	11,12.8.2015	0	1	0	1	0	0	3	1	1	7
17	ZS ASSOCIATES	13,21.8.2015	1	0	1	0	0	0	2	1	0	5
18	Intellect Design Arena	17,18.8.2015	-	-	-	1	2	-	0	-	-	3
19	TATA METALIKS	12,19.8.2015	-	-	-	-	-	1	-	2	0	3
20	AMAZON	21.7.2015	-	-	-	1	-	-	0	-	-	-
21	INNOPLEXUS	14.8.2015	-	-	-	1	-	-	-	1	-	2
22	AMADEUS	21.08.2015	-	-	-	1	1	-	2	-	-	4
23	VERITY Knowledge Soln.	24,25.8.2015	2	1	1	0	1	3	1	1	2	12
24	MUSIGMA	20,26.8.2015	3	0	0	0	5	1	0	1	2	12
25	ANALYTICS QUOTIENT	27,28.08.2015	1	1	0	0	0	3	0	0	0	5
26	ITC INFOTECH	31.8 & 9.9.15	-	-	-	3	0	-	3	-	-	6
27	SHAPOORJI PALLONJI	11.9.15	-	-	3	-	-	-	-	-	-	3
28	ALSTOM TRANSPORT	11.9.15	-	-	0	0	4	5	-	5	-	14
29	FACTSET	14,15.9.2015	-	-	-	6	1	-	4	-	-	11
30	L&T ECC	17,18.9.2015	-	-	13	-	3	6	-	1	0	23
31	TATA MOTORS	18,19.9.2015	-	-	-	-	-	2	-	6	-	8
32	TATA TECHNOLOGIES	21.9,29.10.2015	-	-	-	0	0	-	0	1	-	1
33	NRI FINTECH	22,23.9.2015	-	-	-	1	0	-	0	-	-	1
34	ELEGANT(FLEET)	29,30.9.2015	-	-	-	-	-	-	-	4	-	4
35	DYNAMIC DIGITAL	01.10.2015	-	-	-	1	0	-	2	-	-	3
36	ORACLE	28.9,5.10.15	-	-	-	3	0	0	3	-	-	6
37	ORACLE(OFSS)	28.9,6.10.15	-	1	-	3	1	-	4	0	-	9
38	ERICSSON	07.10.2015	-	-	-	0	6	-	0	-	-	6
39	GODREJ	8.10.2015	-	-	2	-	0	0	-	1	-	3
40	MARUTI	8.8,9.10.2015	-	-	-	-	-	-	-	4	-	4
41	GENPACT	14.10.2015	-	-	-	0	0	-	0	2	4	6
42	OXYGEN	15,16.10.2015	-	-	-	1	0	-	0	-	-	1
43	BELZABAR	PPO	-	-	-	0	-	-	1	-	-	1

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
44	MISYS	5,6.11.15	-	-	-	1	3	0	0	-	-	4
45	SAPIENT NITRO	30.10,7.11.15, 9.3.16	-	-	-	1	1	0	3	-	-	5
46	VEDANTA	9.11.15	-	3	0	-	-	1	-	3	1	8
47	Ashok Leyland	16,19.11.2015	-	-	-	-	-	-	-	1	-	1
48	Schneider Electric	23,24.11.2015	-	-	-	-	-	4	-	1	-	5
49	TATA TINPLATE	03.12.15,11.4.16	-	1	-	-	-	-	-	1	1	3
50	Reliance Industries	03.12.2015	-	20	-	-	-	-	-	-	-	20
51	SIGMOID	2,4.12.2015	-	-	-	0	0	-	0	-	-	0
52	MPHASIS	7.12.2015	-	-	-	1	1	-	0	-	-	2
53	AVANTI LEARNING	9,10.12.2015	1	-	-	-	-	-	-	-	-	1
54	BLUE STAR	4,15.12.2015	-	-	-	-	-	-	-	3	-	3
55	EMAMI	16.12.2015	-	0	-	-	0	-	-	2	-	2
56	SECURE METERS	8,17.12.2015	-	-	-	-	-	2	-	-	-	2
57	AMDOCS	17.12.2015	-	-	-	1	2	-	5	-	-	8
58	VERIZON	27.11,19.12.15	-	-	-	1	1	-	1	-	-	3
59	SMS INDIA	17.11,17.12.15	-	-	-	-	-	0	-	0	-	0
60	GREY B		-	-	-	-	0	-	-	-	-	0
61	AKASH	8,12.12.2015	0	1	0	0	0	0	0	0	0	1
62	PRADAN	22,23.12.2015	4	0	0	0	1	1	1	0	1	8
63	CONCEPT EDUCATION	27,28.12.2015	2	1	0	0	0	0	0	0	0	3
64	IDEA CELLULAR	10.12&5.1.2016	-	-	-	-	4	-	-	-	-	4
65	ORACLE CLOUD	6.11 & 8.1. 16	0	-	1	0	2	1	-	0	0	4
66	DIRECT I	07.11.15	-	-	-	0	-	-	0	-	-	0
67	SYBER PLACE	11.01.2016	1	-	-	1	-	-	-	-	-	2
68	HONDA CARS	12.01.2016	-	-	-	-	-	-	-	5	-	5
69	NSE INFOTECH	15.01.2016	-	-	-	2	0	-	0	-	-	2

SL. No	COMPANY	DATE OF SELECTION	NUMBER OF STUDENTS PLACED (BRANCH WISE)									
70	HALDIA PETROCHEMICALS	15.01.2016	-	2	-	-	-	1	-	1	1	5
71	SUBROS	18.01.2016	-	-	-	-	-	-	-	0	-	0
72	TECH MAHINDRA	18.01.2016	3	2	0	0	1	5	3	5	7	26
73	HSBC	15.01.2016	-	0	0	0	0	0	1	0	0	1
74	LINDE	19.01.2016	-	-	-	-	1	1	-	1	2	5
75	HSCC	20.01.2016	-	-	2	-	-	0	-	0	-	2
76	Reliance Jio Infocomm(RCP)	22.01.2016	-	-	-	2	7	-	1	-	-	10
77	Reliance Jio Infocomm	01.02.2016	-	-	-	2	4	4	1	-	-	11
78	ERA INFRA	02.02.2016	-	-	0	-	-	-	-	-	-	0
79	mJUNCTION	04.02.2016	-	-	-	1	2	-	-	-	-	3
80	ORIENT ELECTRIC	19.02.2016	-	-	-	-	-	1	-	-	-	1
81	TRACTORS INDIA LTD	22,23.02.2016	-	-	-	-	-	2	-	4	-	6
82	JSL	23,24.02.2016	-	-	-	-	-	2	-	3	2	7
83	TATA POWER	14.1, 1-4.3.16	-	-	-	-	0	1	-	1	-	2
84	CALL HEALTH SERVICES	24.02,19.3.16	-	-	-	2	-	-	1	-	-	3
85	MINDTREE	17,21.03.16	-	-	-	0	1	0	4	-	-	5
86	COAL INDIA	3,4,.4.2016	-	-	-	9	4	11	-	6	-	30
87	HPCL	5,6,.4.2016	-	2	0	-	0	1	-	3	-	6
88	PCTL (PAHARPUR)	29.2,18.4.2016	-	-	2	-	-	-	-	1	-	3
	Strength		76	62	66	91	93	97	88	128	73	774
	Total Placed		40	46	28	77	74	68	70	87	35	525
	Percentage Placed		52. 63%	74. 19%	42. 42%	84. 62%	79. 57%	70. 10%	79. 55%	67. 97%	47. 95%	67.83%
	Total Job Offered		46	83	50	125	128	112	106	126	42	818

PG- Placement Record (2015-16)

SL. No	COMPANY	NUMBER OF STUDENTS PLACED (BRANCH WISE)																					
		M.Tech Specialisation																	Msc			MCA	MBA
		CC	ECE	EE	ME	CIV	CHE	BT	MME	CA	MATH	PHY	CHEM	CSE	IT	EES							
		HPC	TEL	VLSI	ES	DPE	SE	CHE	BT	IM	ME	SE	OR	AMST	CST.	CSE	IT	EST	PHY	CHE	MATH		
1	MICROSOFT	-	-	-	-	-	-	-	-	-	-	0	-	-	-	0	0	-	-	-	-	0	-
2	AMAZON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	-
3	ENDURANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	-
4	DE SHAW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
5	NOVELL	-	-	-	-	-	-	-	-	-	-	0	-	-	-	0	0	-	-	-	-	0	-
6	INCTURE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
7	INNOPLEXUS	0	-	-	-	-	-	-	-	-	-	0	-	-	-	1	0	-	-	-	-	-	-
10	VERITY	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-	-	-	-	-
11	POLARIS(IDA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5(Interns)	-
12	ANALYTICS QUOTIENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		3	_
13	WIPRO	1	1	3	4	1	-	-	-	-	-	5	1	1	-	3	4	-	-	-	-	4	
14	INFOSYS	0	1	2	2	1	0	0	0	0	0	2	0	0	0	2	4	0	0	0	0	11	
15	IBM	1	2	5	0	1	0	1	-	0	0	6	-	0	0	3	1	0	0	0	0	13	
16	FACTSET	0	-	-	-	-	-	-	-	-	-	0	-	-	-	2	0	-	-	-	-	1	
17	L&T ECC	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	
18	TATA TECHNOLOGIES	-	-	-	0	0	0	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	
19	NRI FINTECH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
20	DYNAMIC DIGITAL	-	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	
21	ORACLE	0	0	0	0	-	-	-	-	-	-	0	-	-	-	0	0	-	-	-	-	-	
22	ORACLE(OFSS)	0	0	0	0	-	0	0	-	-	0	0	-	-	-	0	0	-	-	-	0	0	
23	GENPACT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	
24	MISYS	0	0	0	0	-	-	-	-	-	-	1	-	-	-	0	0	-	-	-	-	-	
25	MPHASIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	

SL. No	COMPANY	NUMBER OF STUDENTS PLACED (BRANCH WISE)																					
		M.Tech Specialisation																	Msc			MCA	MBA
26	AMDOCS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	4	
27	HASHEDIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
28	IDEA CELLULAR	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	NSE INFOTECH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
30	TECH MAHINDRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
31	MAQ SOFTWARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
32	mJUNCTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
33	Sankalp Semiconductor	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	RAMBUS	-	-	1	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-
35	Axis Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
36	S.R.Patel Engg. College	1	-	-	-	-	1	-	-	-	-	1	-	-	-	0	0	2	0	0	0	-	-
37	AIRTEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
38	KOTAK MAHINDRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
39	Schneider Electric	0	-	-	-	-	-	-	-	-	-	2	-	-	-	0	0	-	-	-	-	-	-
40	CALL HEALTH SERVICES	0	-	-	-	-	-	-	-	-	-	0	-	-	-	0	1	-	-	-	-	0	-
41	CA TECHNOLOGIES	-	0	0	-	-	-	-	-	-	-	-	-	-	-	1	0	-	-	-	-	-	-
	Strength	14	20	21	17	12	18	18	17	2	5	16	9	17	18	20	19	14	14	18	10	84	37
	Total Placed	1	5	8	5	2	1	1	0	0	0	10	2	1	0	7	6	2	0	0	0	32	11
	Percentage Placed	7.14	25	38.10	29.41	1 6.7	5.56	5.56	0	0	0	62.50	22.22	5.88	0	35	31.58	14.29	0	0	0	38.10	29.73
	Total Job Offered	3	5	13	7	3	1	1	0	0	0	17	2	1	0	13	10	2	0	0	0	47	11

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 2015-2016 – Rs. 6000.00 Lakhs.

Annexure – 11.11(b) Plan grant

Plan (General) Grant received in 2015-2016 – Rs. 5300.00 Lakhs

Annexure – 11.11(c) Sources of grants

Till Financial year 2002-03

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

From financial year 2003-04 onward

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

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

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	2495.36	2014-15	7573.72
(Unaudited) 2015-16	4750.82	(Unaudited) 2015-16	8092.35

Plan head Expenditure in 2015-16 (unaudited) – Rs 4750.82 Lakhs

Non-Plan head Expenditure in 2015-16 (unaudited) – Rs 8092.35 Lakhs (including depreciation)

Annexure 11.12(a) Construction work completed/ in progress during the year 2015-16 (Plan grant project)

- The international Student Hostel is made available for accommodation of international students this year.
- S.N.Roy Memorial Building is now being accomodated by different administrative sections.
- External and Internal paintings of all the hostels are going on along with renovation of toilets.
- Complete re nowation of old hostel is in pipeline.
- The 7th floor casting of G+7 Girls Hostel is on and expected to be completed by this year. Furniture procurement is in pipeline.
- Furniture procurement for VIP guest house is in pipeline.
- New space allortment is done for five departments.
- A/A and E/S of the procurement of furniture of new academic block was issued to CPWD in January 2016, however no progress is renorted by CPWD till date.
- Renovation of old academic building is not yet completed particularly in internet and False ceiling.

Annexure – 11.13 List of Laboratories

Department	Laboratories
Biotechnology	Biochemistry, Microbiology, Bioinformatics, Molecular Biology & rDNA Technology, Immunology, Fermentation Technology, Bioseparation Technology, Bioprocess Engineering, Plant Biotechnology, Food Biotechnology
Chemical Engineering	Heat Transfer Lab, Mass Transfer Lab, Fluid Flow Lab, Mechanical Operations Lab, Environmental and Membrane Technology Lab, Computing Lab, Energy Lab, Adsorption Lab, Chemical & Bio-Chemical Reaction. Engg. Lab, Process Control Lab, Combustion Engineering Lab, Multi-phase Flow Lab, Process Modelling & Simulation Lab, Central Research Laboratory, Process Equipment Design Lab, Thermo-fluid laboratory
Chemistry	M. Tech (Corrosion Sc. & Tech.)Laboratory, PG (M.Sc.) Laboratory, UG (B.Tech.) Laboratory, Synthesis & Analytical Laboratory, Inorganic Synthesis and Environmental Laboratory, Natural Product & Biological Chemistry Laboratory, Bio-molecular Modelling Laboratory, Instrumentation Laboratory -1, Instrumentation Laboratory -2, Computer Laboratory cum Library
Civil Engineering	Concrete and Structure Laboratory, Highway Engineering Laboratory, Surveying Laboratory, Environmental Engineering Laboratory, Soil Mechanics Laboratory, Water Resources Engineering Laboratory, Exciter and FFT nalyser for Earthquake Laboratory 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 Technology Lab, Network Laboratory, Electrical & Electronics Measurement Lab, Electrical Machines Lab, Power Electronics Lab, Power Systems Lab, High Voltage Engg Lab, Control Systems Lab, Advanced Power Electronics Lab, Advanced Power Systems Lsab, Advanced Control Systems Lab, Process Instrumentation Lab, Digital Signal Processing Lab, Embedded Systems Lab, Computation Lab
Electronics & Communication Engineering	Electronics Circuit Lab, Network Lab, VLSI Lab, Digital Electronics Lab, Communication Lab, Industrial Electronics Lab, Instrumentation Lab, Microprocessor Lab, Computer architecture Lab, Microwave Lab, PCB Lab, Microwave and Antenna Research Laboratory, Microwave Component Design Laboratory,Advanced Communication Lab (for PG)
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, Heat Power Laboratory, Thermal Energy Laboratory, Robotics & AI Laboratory, Manufacturing Science Laboratory, Fluid Mechanics & Hydraulic Machines Laboratory, Metrology Laboratory, Machine Dynamics Laboratory

Department	Laboratories
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 Laboratory, Electronics Laboratory, Carbon Nanotechnology Laboratory, Optical sensor laboratory
Central Instrumentation Facility	Scanning Electron Microscope with EDS, X-Ray Diffractometer, Nd:YAG Laser Unit, Spectrum Analyzer

Annexure-11.14 Technical Education Quality Improvement Programme (TEQIP)

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 2015-16

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.

Department of Biotechnology

Author	Title of the book	Publisher	Date of Publication
Basak, B. and Dey, A.	Advances in Environmental engineering and Green technologies (AEEGT): Toxicity and Waste management using Bioremediation	IGI global	2016
Banerjee, A., Ray, S. & Dey, A .	Advances in Dynamics, Vibration and Control : Molecular Modeling and Computing for PDZ protein(A-1 Syntrophin) from Homo Sapiens: A Comparative Optimization approach for Protein/Drug affinity	Narosa publishing house, Kolkata	2016
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
Department of Chemical Engineering			
Prof C. M. Narayanan, Shrijita Das, Aditi Pandey	Handbook of Food Bioengineering, Volume – II, Chapter-1	Elsevier	2016 (under print)

Author	Title of the book	Publisher	Date of Publication
Department of Chemistry			
Majumder, G.C., Saha, S., Das, K., Nath, D., Maity, A., Dey,S., Roy, D., Dey,C.S., Mitra, S., Rana, S., Chakrabarty, J., Das, S., Bhoumik, A., Banerjee, S., Mandal, M., Jaiswal, B.S., Ghosh, P., Das, A., Bhattacharyya, D., Dungdung S.R.	"Role of Sperm Surface Molecules in Motility Regulation" in Mammalian Endocrinology and Male Reproductive Biology, Edited by Shio Kumar Singh	CRC Press, India	2015
Dungdung S.R., Bhoumik, A., Saha, S., Ghosh, P., Das, K., Mukherjee, S., Nath, D., Chakrabarty, J., Kundhu, C.N., Jaiswal, B.S., Mandal, M., Maity, A., Banerjee, S., Roychowdhury, M., Ray, D., Bhattacharyya, D., Majumder, G.C.	"Sperm Motility Regulatory Proteins: A Tool to Enhance Sperm Quality" in Insights from Animal Reproduction edited by Rita Payan Carreira	InTech - Open Access (http://dx .doi.org/ 10.5772/ 62470)	March 23, 2016
Department of Civil Engineering			
N B Hui & A K Banik Ed.	Edited Proceedings: Advances in Dynamics, vibration and control ISBN: 978-81-8487-550-8 (Print),	Narosa	Feb. 2016
Department of Computer Science and Engineering			
Dawson, M., Kisku, D.R., Gupta, P., Sing, J.K., and Li, W.	Developing Next-Generation Countermeasures for Homeland Security Threat Prevention	IGI Global, USA	August 2016
Das, S., Pal, T., Kar, S., Sathapathy, S., and Mandal, J.K. (Editors)	Proceedings of the International Conference "Frontiers of Intelligent Computing: Theory and Applications (FICTA 2015), Lecture Notes on AISC Series	Springer (India) Pvt. Ltd	October 24, 2015

Author	Title of the book	Publisher	Date of Publication
Mukhopadhyay, S., Mandal, J.K., and Pal, T. (Editors)	Handbook of Research on Natural Computing for Optimization Problems (2 Volumes)	IGI Global, Pensylvenia, USA	May, 2016
Department of Electronics and Communication Engineering			
Saha Sajal, Mukhopadhyay Asish K, Bhattacharjee A. K.	Mobility management in IP based Network,Framework,Issues and Challenges	Lap Lambert Academic Publishing ,Germany,	June 2015.
Saha Sajal,Chakarborty Angana, Mukhopadhyay Asish K, Bhattacharjee A. K.	Mobile WiMAX, Physical Layer Optimization and Performance Analysis Towards Sustainability and Ubiquity	Springer lecture notes in Information Systems Design and Intelligent Applications	2015.
Department of Mathematics			
Das, S. Pal, T., Kar, S., Sathapathi, S., Mondal, J. K	"Frontiers of Intelligent Computing: Theory and ApplicationsEds Das, S. Pal, T., Kar, S., Sathapathi, S., Mondal, J. K., ISBN 978-81-322-2695-6	Springer	November, 2015
Department of Physics			
Bhattacharya A.Chakraborty A.K.	Book chapter entitled "Crabon nanotube induced targeted drug delivery" in the book entitled "Bio-Targets and Drug Delivery Approaches"	CRC Press	In Press
Chinnamuthu P., Mondal A.	A book chapter entitled "TiO2 Nanowires Based Optical Sensor" to be published in Encyclopedia of Nanoscience and Nanotechnology by American Scientific Publishers	American Scientific Publishers	Accepted for publication

Annexure 11.16 (b).i: Reviews of manuscripts for publication in journals

Department of Biotechnology

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Bhattacharjee, A.	Cellular Physiology and Biochemistry	Karger	February, 2016
Bhattacharjee, A.	PLOS ONE	PLOS ONE	February, 2016
Dutta, D.	LWT-Food Science and Technology	Elsevier	March 8, 2016
Dutta, D.	Green Processing and Synthesis	De Gruyter	July 9, 2015
Dutta, D.	Journal of Food Science and Technology	Springer	June 26, 2015
Dutta, D.	Journal of Food Science and Technology	Springer	May 22, 2015
Dutta, D.	Journal of the Science of Food and Agriculture	Wiley	April 28, 2015
Ghosh, M.	Journal Anti Microbial Agents And Chemotherapy	ASM	January 2016
Kazy S. K.	Environmental Science and pollution Research	Springer	June, 2015
Kazy, S. K.	Critical Reviews in biotechnology	Taylor and Francis	October, 2015
Pal P.	Chemical Engineering & Processing	Elsevier Sc.	21.4.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc.	23.4.2015
Pal P.	Journal of Water Process Engineering	Elsevier Sc.	26.4.2015
Pal P.	Journal of Membrane and Separation Technology	Life science Global	24.4.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc	26.4.2015
Pal P.	Biochemical Engineering Journal	Elsevier Sc.	20.5.2015
Pal P.	Journal of Membrane Science	Elsevier Sc	20.5.2015
Pal P.	Chemical Engineering Science	Elsevier Sc.	16.4.2015
Pal P.	Indian Chemical Engineer	Taylor and Francis	18.6.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc.	19.6.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc	5.7.2015
Pal P.	Water Environment Research	Water Environment Federation	22.7.2015
Pal P.	Chemical Engineering & Processing	Elsevier Sc	26.7.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc.	2.8.2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Pal P.	Biochemical Engineering Journal	Elsevier Sc	9.8.2015
Pal P.	Separation and purification Technology	Elsevier Sc.	4.9.2015
Pal P.	Journal of Membrane Science	Elsevier Sc.	17.9.2015
Pal P.	Biochemical Engineering Journal	Elsevier Sc.	12.9.2015
Pal P.	Chemical Engineering Science	Elsevier Sc.	25.9.2015
Pal P.	Desalination and Water Treatment	Taylor and Francis	03.9.2015
Pal P.	Separation and purification Technology	Elsevier Sc.	17.10.2015
Pal P.	Industrial & Engineering Chemistry Research	American Chemical Society	24.10.2015
Pal P.	Journal of Membrane Science	Elsevier Sc.	4.12.2015
Pal P.	Journal of Membrane & Sepn Tech	Life science Global	5.12.2015
Pal P.	Catalysis Today	Elsevier Sc.	26.12.2015
Pal P.	Journal of Cleaner Production	Elsevier Sc.	26.12.2015
Pal P.	Bioresource Technology	Elsevier Sc.	1.1.2016
Pal P.	Biochemical Engineering Journal	Elsevier Sc.	30.1.2016
Pal P.	Separation and purification Technology	Elsevier Sc	24.2.2016
Pal P.	Desalination	Elsevier Sc.	24.2.2016
Pal P.	Bioresource Technology	Elsevier Sc.	21.02.2016
Pal P.	Catalysis Today	Elsevier Sc.	20.2.2016
Pal P.	Journal of Cleaner Production	Elsevier Sc.	28.2.2016
Pal P.	Chemical Engineering Science	Elsevier Sc.	27.2.2016
Pal P.	Journal of Cleaner Production	Elsevier Sc.	25.2.2016
Gupta P.	Chemical Engineering Journal	Elsevier	May 05, 2015
Gupta P.	Journal of Analytical and Applied Pyrolysis	Elsevier	July 12, 2015
Gupta P.	Combustion Theory & Modelling	Taylor & Francis	Jan 12, 2016
Gupta P.	Fuel	Elsevier	Feb 13, 2016
Narayanan C. M.	Heat and Mass Transfer	Springer	06 papers (July,2015 to March,2016)
Narayanan C. M.	Korean Journal of Chemical Engineering	Springer	January,2016
Narayanan C. M.	Energy Conversion and Management	Elsevier	December, 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Narayanan C. M.	Journal of Institution of Engineers(I),Series E	Springer	October,2015, February, 2016
Paruya S.	Indian Chemical Engineer	Taylor & Francis	
Paruya, S	Annals of Nuclear Energy	Elsevier	
Paruya, S	Heat Transfer Engineering	Taylor & Francis	
Paruya, S.	Chemical Engineering Science	Elsevier	
Department of Chemistry			
1. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	21-05-2015
2. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics Journal of Biomolecular Structure & Dynamics	Taylor and Francis	18-09-2015
3. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	10-10-2015
4. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	10-10-2015
5. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	21-05-2015
6. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	18-09-2015
7. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	10-10-2015
8. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	10-10-2015
9. Mukhopadhyay B.P	Journal of Biomolecular Structure & Dynamics	Taylor and Francis	21-05-2015
10. Saha R. N.	Journal of Nanoparticle Research	Springer	16.06.15
11. Saha R. N.	Environmental Monitoring and Assessment	Springer	29.04.2015
12. Panja S S	RSC Advances	RSC	February, 2016
13. Panja S S	Sensors and actuators	Elsevier	February, 2016
14. Panja S S	Sensors and actuators	Elsevier	November, 2015
15. Panja S S	Sensors and actuators	Elsevier	June, 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Department of Civil Engineering			
Das, D.	ACI Structural Journal	American Concrete Institute	October, 2015
Department of Computer Applications			
Changder S	International Journal of Information and Computer Security	Inderscience Publishers	Feb 2016
Das S	International Journal of Advanced Intelligence Paradigms (IJAIP), Inderscience Publications	Inderscience Publishers	31.05.2016
Das S	International Journal of Big Data Intelligence (IJBDI), Inderscience Publications	Inderscience Publishers	31.05.2016
Department of Computer Science and Engineering			
Dalui, M.	IEEE Transaction on VLSI	IEEE	December, 2015
Sen, B	IEEE TETC	IEEE	2nd Feb, 2016
Sen, B	Microelectronics	Elsevier	3rd May, 2015
Sarker, G.	IEI - B	Springer	21st March, 2016
Sarker, G.	IEI - B	Springer	14th January, 2016
Sarker, G.	IEI - B	Springer	9th December, 2015
De, T.	Photonic Network Communication	Springer	7th February 2016
De, T.	Photonic Network Communication	Springer	18th April 2016
Department of Electrical Engineering			
Banerjee S	IEEE Industrial Application Society	IEEE	22 Dec., 2015
Acharjee P.	IEEE transaction on Power System	IEEE	May 2015
Acharjee P.	International journal of electrical power and energy system	Elsevier	July 2015
Acharjee P.	Electrical Power system Research	Elsevier	November, 2015
Acharjee P.	Applied soft computing	Elsevier	December, 2015
Acharjee P.	Electric power components systems	Taylor & Francis	January 2016
Saha T K	Transaction of Mechatronics	IEEE	29 Feb 2016
Saha T K	Transaction of Mechatronics	IEEE	13 April 2015
Saha T K	Transaction on Sustainable Energy	IEEE	25 April 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Saha T K	Transaction on Sustainable Energy	IEEE	21 Nov 2015
Department of Electronics and Communication Engineering			
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	April 07, 2016
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	February 24, 2016
Chandra, A.	IEEE Transactions on Vehicular Technology	IEEE	December 04, 2015
Ghatak, R.	IEEE Transaction on Antenna and Propagation, IEEE Microwave and Wireless Propagation Letters, IET Microwave Antennas and Propagation, PIER , AEUE International journal of Electronics and Communication, RFMICAE, JEMWA	IEEE/ IET, Springer, Elsevier, Taylor Francis	2015-16
Mahapatra, R.	Material Science in Semiconductor Processing	Elsevier	May 2015
Mahapatra, R.	Applied Physics Letter	American Institute of Physics Elsevier	June 2015
Mahapatra ,R.	Journal of Alloys and Compounds		February 2016
Manda,l S.. K	International Journal of Microwave and Wireless Technologies	Cambridge University Press	May 2016
Mandal, S. K.	Progress in Electromagnetic Research (PIER)	The Electromagnetics Academy	July 2015
Mandal, S. K.	IETE	Taylor & Francis	Jan 2016
Dhar Roy, S.	IET Communications	IEEE	April 26, 2016
Dhar Roy, S.	Electronics Letters	IEEE	Nov. 20, 2015
Dhar Roy, S.	Computers in Biolgy and Medicine	Elsevier	Aug. 17, 2015
Dhar Roy, S.	IET Communications	IEEE	Aug. 8, 2015
Department of Information Technology			
Nandi, D.	Microsystem Technologies	Springer	25 Nov, 2015
Nandi, D.	Microsystem Technologies	Springer	29 Nov, 2015
Nandi, D.	Microsystem Technologies	Springer	9 Dec, 2015
Department of Management Studies			
De, Anupam	Amity Journal of Finance	Amity Business School	September, 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
Ghosh, Amlan	International Journal of Financial Innovation in Banking	Inderscience Publisher	February, 2016
Ghosh, Amlan	Amity Journal of Finance	Amity Business School	November 2015
Pal, Durba	Journal of the Indian Academy of Applied Psychology	IAAP	January, 2016
Department of Mathematics			
Dey, L.K.	Filomat	University of Nis	October, 2015
Dey, L.K.	Filomat	University of Nis	April, 2016
Dey, L.K.	Journal of Inequalities and Applications	Springer	October, 2015
Pal, A.	Annals of Fuzzy Mathematics and Informatics	Kyung Moon Sa Co.	June, 2015
Pal, A.	Journal of Applied mathematics and Computing	National Academy Science Letters	November, 2015
Pal, A.	Mathematical Programming Series A	Springer	May, 2015
Department of Mechanical Engineering			
Hui N. B.	IEEE Microcom	IEEE	December 2015
Hui N. B.	IEEE Transactions in Mechatronics	IEEE	November 2015
Department of Physics			
16. Chakraborty A.K.	Composites: A	Elsevier	April, 2015
17. Chakraborty A.K.	Composites: A	Elsevier	September, 2015
18. Chakraborty A.K.	Composites Science & Technology	Elsevier	October, 2015
19. Chakraborty A.K.	Thin Solid Films	Elsevier	January, 2015
20. Chakraborty A.K.	IEEE Transactions on Nanotechnology	IEEE	December,2015
21. Chakraborty A.K.	Advanced Materials Letters	VBRI Press	January, 2016
22. Chakraborty A.K.	American Scientific Publishers	American Scientific Publishers	May, June, July, 2015
23. Kumbhakar P.	Advanced Science Letters	American Scientific Publishers	April 28, 2015
24. Kumbhakar P.	Mat. Chem and Phys.	Elsevier	June 1, 2015
25. Kumbhakar P.	Opt. Materials	Elsevier	June 15, 2015
26. Kumbhakar P.	Physical Chemistry Chemical Physics	RSC	June 18, 2015
27. Kumbhakar P.	RSC Advances	RSC	July 6, 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
28. Kumbhakar P.	Indian J Physics	Springer & IACS	July 14, 2015
29. Kumbhakar P.	Mat. Res. Bulletin	Elsevier	July 17, 2015
30. Kumbhakar P.	JACS	ACS	Oct. 13, 2015
31. Kumbhakar P.	J. Crys. Growth	Elsevier	Feb. 18, 2016
32. Meikap A.K.	Polymer Composites	John Wiley & Sons	Apr-15
33. Meikap A.K.	Comp. Sci. & Tech.	Elsevier	May-15
34. Meikap A.K.	Instrum. Sci. & Tech.	Western Carolina Uni.	May-15
35. Meikap A.K.	Physica Status Solidi A	Wiley-VCH Verlag	Jun-15
36. Meikap A.K.	Materials Research Bulletin	Elsevier	Jul-15
37. Meikap A.K.	Polymer Composites	John Wiley & Sons	Jul-15
38. Meikap A.K.	RSC Advances	Royal Soc. of Chem	Aug-15
39. Meikap A.K.	J. Alloys and Comp.	Elsevier	Aug-15
40. Meikap A.K.	Polymer Engg. Science	John Wiley & Sons	Sep-15
41. Meikap A.K.	RSC Advances	Royal Soc. of Chem	Oct-15
42. Meikap A.K.	RSC Advances	Royal Soc. of Chem	Oct-15
43. Meikap A.K.	J. Mater. Chem. C	Royal Soc. of Chem	Oct-15
44. Meikap A.K.	ACS Appl. Mater. Inter.	ACS	Oct-15
45. Meikap A.K.	J. Non-Crys. Solids	Elsevier	Nov-15
46. Meikap A.K.	J. Comp. Materials	SAGE	Nov-15
47. Meikap A.K.	Polymer Composites	John Wiley & Sons	Dec-15
48. Meikap A.K.	ACS Appl. Mater. Inter	ACS	Jan-16
49. Meikap A.K.	Thin Solid Films	Elsevier	Mar-16
50. Meikap A.K.	Materials Research Bulletin	Elsevier	Mar-16
51. Mondal	Journal of Alloys and Compounds	Elsevier	June, 2015
52. Meikap A.K.	Compounds Transactions on Electron Devices	IEEE	July, 2015
53. Mondal A.	Journal of Alloys and Compounds	Elsevier	July, 2015
54. Mondal A.	Materials Science in Semiconductor Processing	Elsevier	July, 2015
55. Mondal A.	Optics Communications	Elsevier	June, 2015
56. Mondal A.	Plasmonics	Springer	April, 2015
57. Mondal A.	Advanced Science Letters	ASP	May, 2016
58. Mondal A.	Materials Letters	Elsevier	August 2015
59. Mondal A.	Journal of Inorganic and Organometallic Polymers and Materials	Springer	December, 2015

Reviewer	Name of the Journal	Publisher	Date (of Final Review)
60. Meikap A.K.	Journal of Alloys and Compounds	Elsevier	December, 2015
61. Meikap A.K.	Semiconductor Science and Technology	IOP	January, 2016
62. Meikap A.K.	Plasmonics	Springer	February, 2016
63. Meikap A.K.	Journal of Materials Chemistry C	RSC	February, 2016
64. Meikap A.K.	Transactions on Nanotechnology	IEEE	April, 2016
65. Meikap A.K.	Optics Communications	Elsevier	April, 2016
66. Sahoo S.	Journal of Physics and Astronomy Research	Premier Publishers	20 April, 2016
67 Sahoo S.	Universal Journal of Physics and Application		November, 2015
68 Sahoo S.	Journal of Applied Physical Science International	International Knowledge Press, UK	March, 2016

Annexure 11.16 (b).ii: Reviews of books during 2015-16

Reviewer	Name and author of the book	Publisher	Date
Prof. P. Pal	Natural Organic Matter in Water, by Mika Sillanpaa	Elsevier Sc.	25.4.2015
Department of Electronics and Communication Engineering			
Chandra, A.	Fiber Optics Communication	Universities Press	April 18, 2016
Dhar Roy, S.	Optical Communication	Oxford University Press	June 26, 2015
Department of Management Studies			
De, Anupam	Contemporary Engineering Economics, Park, S. C.	Pearson Education (Global Edition)	December, 2015
Pal, Durba	Principles of Management and Organizational Behaviour	Sage Publications India Pvt. Ltd.	July, 2015.

Annexure 11.16 (c). Participation in National Committees/ visits during 2015-16

Department of Biotechnology

Chattopadhyay, S.	Task Force, DBT, Govt. of India	DBT, New Delhi	2015
Chattopadhyay, S.	PAC, DST, Govt. of India	DST, New Delhi	2015
Chattopadhyay , S.	Fellowship Scrunity Committee	NASI, Allahabad	2015
Chattopadhyay, S	Research Council, CSIR-CIMAP, Lucknow	CIMAP, Lucknow	2015

Department of Chemical Engineering			
Gupta P.	Technical Committee, CCMT	NIT Surathkal	Feb 18, 2016
Department of Physics			
Chaudhuri H.	Nodal Officer, NIT Durgapur, Rashtriya Avishkar Abhiyan	MHRD, New Delhi	November 16-17, 2015
Chaudhuri H.	Sub-committee on Geothermal Energy	Geological Survey of India, Northern Region, Lucknow	July 09-11, 2015

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

Department of Biotechnology

Reviewer	Name and author of the book	Publisher	Date
Chattopadhyay, S.	Ph.D. thesis evaluation	NIPGR, New Delhi; ILS, Bhubaneswar; JNU, New Delhi; CU, Kolkata; CSIR-CFTRI (ACSIR)	2015
Chaudhuri, S.	M.Tech	Integral University Lucknow	November 2015
Dutta, D.	B.Tech	Integral University Lucknow	February 2016
Kazy, S. K.	M.Sc (Biotechnology) theory paper setter for semester examination	Burdwan University	November, 2015
Department of Chemical Engineering			
Gupta P.	M. Tech. project viva voce	IIT Kharagpur	April 29, 2015
Gupta P.	PhD thesis examination & viva voce	NIT Warangal	November 23, 2015
B. Das	Viva voce in project of B. Tech	Calcutta University	June ,8, 2015
Prof C. M. Narayanan	AMIE	The Institution of Engineers (India)	December, 2016
Paruya, S.	PhD Viva-voce of		
Somak Jyoti Sahu	Jadavpur University	April 27, 2015	
B. Das	Viva voce in project of B. Tech	Calcutta University	June ,10, 2016

Reviewer	Name and author of the book	Publisher	Date
Pal. P.	PhD thesis	Jadavpur University	Feb16, 2015
Gupta P.	PhD thesis examination & viva voce	NIT Warangal	November 23, 2015
B. Das	Viva voce in project of B. Tech	Calcutta University	June ,8, 2015
Prof C. M. Narayanan	AMIE	The Institution of Engineers (India)	December, 2016
Paruya, S.	PhD Viva-voce of		
Somak Jyoti Sahu	Jadavpur University	April 27, 2015	
B. Das	Viva voce in project of B. Tech	Calcutta University	June ,10, 2016
Department of Chemistry			
Mukhopadhyay B.P	U.G. Board of studies in Bio Chemistry	Kazi Nazrul university	29-02-2016
Mukhopadhyay B.P	U.G. Moderation in Bio Chemistry	Kazi Nazrul university	14-03-2016
Panja S S	M.Sc	Burdwan University	27.08.2015
Panja S S	M.Sc	Burdwan University	02.09.2015
Patra, A. K.	M. Sc	Burdwan University	April, 2015
Saha R N	Term Paper for Ph.D. Course Work Examination	Burdwan University	20.04.2015
Saha R N	Comprehensive examination for research	CMERI Durgapur	15.06.15
Saha R N	M.Sc.	Burdwan University	26.08.15
Saha R N	M.Phil	NIT Srinagar	05.11.15
Department of Computer Science and Engineering			
Pal, T.	PhD Thesis	NIT, Silchar	2015
Pal, T.	PhD Defence	Kalyani University, Kalyani	July 2015
Pal, T.	PhD Defence	NIT, Silchar	November 28, 2015
Roy, S.	M.Tech.	BIT Mesra	May 2015

Reviewer	Name and author of the book	Publisher	Date
Sarker G.	Ph.D. Thesis	IIT Roorkee	September 02, 2015
Sarker G.	Ph.D. Thesis	Jawaharlal Nehru Tech. Univ. Hyd.	March 16, 2015
Sen, B.,	B. Tech. Project & Viva	BIT Sindri	May 2015
Department of Electrical Engineering			
Banerjee S	M. Tech thesis evaluation	NITTR Kolkatta	July, 2015
Banerjee S	M. Tech thesis evaluation	IIT Kharagpur	May, 2015
Banerjee S	B. Tech Grand Viva	BCET, Durgapur	June, 2015
Banerjee S	PhD thesis evaluation	Jadavpur University	Dec, 2015
Acharjee P.	Ph.D. thesis evaluation	Jadavpur University	September 2015
Saha T K	M. Tech thesis evaluation	IIT Kharagpur	May, 2015
Department of Electronics and Communication Engineering			
Kundu Sumit	M.Tech project evaluation	IIT Kharagpur	May 2016
Ghatak Rowdra	M.Tech (Microwave) Viva	The University of Burdwan	2015
Department of Management Studies			
De, A.	B.Com. (Hons)	Integral University Lucknow	April, 2015
De, A.	M.B.A.	Integral University Lucknow	April, 2015
De, A.	B.Com. (Hons)	Integral University Lucknow	September, 2015

Reviewer	Name and author of the book	Publisher	Date
Department of Mathematics			
Pal, A.	PhD Viva-voce	Rajshahi University, Bangladesh	February, 2016
Basu, K.	PhD Viva-Voce	Mody University, Jaipur, Rajasthan	October, 2015
Basu, K.	PhD Viva-Voce	University Of Kalyani	March, 2016
Department of Physics			
Chakraborty A.K.	External Examiner for two practical papers of five-year Integrated M. Sc. Programme	Visvabharati university, Shantinekatan	November, 2015
Chakraborty A.K.	Expert of the Interview Panel for selection of candidates through "Senior Talent Search Test-2015"	Jagadish Bose National Science Talent Search (JBNSTS), Kolkata	November, 2015
Chakraborty A.K.	Expert member of the Board of Studies meeting	Netaji Subhas Open University, Kalyani	December, 2015
Chakraborty A.K.	External Examiner for two practical papers of five-year Integrated M. Sc. Programme	Visvabharati university, Shantinekatan	May, 2015
Kumbhakar P.	Board of Moderators in Physics New Syllabus (CBCS) All (Board-5) and Physics Old Syllabus All (Board-4) for the M.Sc. 3rd Sem Exam, 2015	Burdwan University, Burdwan	08.01.2016
Kumbhakar P.	External Expert for PhD thesis Defence	Anna University, Tamilnadu	28.08.2015
Kumbhakar P.	External Examiner for Final Examinations/ Defence of PhD Thesis	MANIT Bhopal, Bhopal	09.11. 2015
Kumbhakar P.	External Expert Member in relation to the pre-PhD thesis submission of a research scholar of Dept. of Physics	Visva-Bharati, Santiniketan	30.01.2016

Reviewer	Name and author of the book	Publisher	Date
Meikap A.K.	Paper setter & Examiner	The Indian Institute of Metal, Kolkata	2015-2016
Meikap A.K.	Examiner	Institute of Engineers, Kolkata	2015-2016
Meikap A.K.	Paper Setter	Burdwan University, Burdwan	2015-2016
Sahoo S.	M. Sc. (Physics)	Veera Surendra Sai University of Technology, Burla, Odisha.	April, 2015

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

Department of Biotechnology

Name of the faculty	Discipline	University/Institute	Date
Kazy, S. K.	Selection of JRF/Project Assistant	CSIR-CMERI	January, 2016
Kazy, S. K.	Selection of JRF/SRF/ Project Assistant	CSIR-CMERI	September, 2015
Department of Chemical Engineering			
Prof.P.Pal	Chemical Engg.	J.U.	March16
Department of Chemistry			
Mukhopadhyay B.P	Chemistry	CMERI-Durgapur	24-09-2015
Saha R N	Performance management of Faculty members of Chemistry	Asansol Engineering College	27.08.15
Department of Computer Science and Engineering			
Kisku, D.R.	Expert Member of the Selection Committee for Selection of Faculty Members	NITTTR Kolkata	June 2015
Kisku, D R.	Expert Member of the Selection Committee for Selection of Candidates for Various Technical Posts	NITTTR Kolkata	May 2015

Reviewer	Name and author of the book	Publisher	Date
Kisku, D.R.	Member of the Search Committee constituted by Academic Keys, LLC for conducting an Executive Search for the Position of Academic Head - Computer Science at a Virginia Tech University, USA	Online Communication	July 2015
Department of Electrical Engineering			
Banerjee S	Electrical Engineering	Dr. B.C.Roy Engg. College, Durgapur	23rd September, 2015
Banerjee S	Electrical Engineering	IIEST, Shibpur	19th November, 2015
Saha T K	Electrical Engineering	Sanaka Educational Trust's Group of Institutions	5th Jan, 2016
Saha T K	Electrical Engineering	ABS Academy of Polytechnic	14th Jan, 2016
Department of Management Studies			
De, A.	MBA	Asansol Engineering College	July, 2015
Bandyopadhyay, G.,	MBA	BIMTECH	13th February 2016
Department of Mathematics			
Basu, K.		CMERI, Durgapur	February,2016
Kar, S.		CMERI, Durgapur	February,2016
Department of Physics			
Kumbhakar P.	Selection committee meeting as subject Expert for recruitment of University Teachers in Physics	Sidho-Kanho-Birsha University, Purulia	27.11.2015

Annexure 11.16 (f): Invited lectures

Department of Biotechnology

Name of the faculty	Title of the lecture	Programme	Place	Date
Bhattacharjee, A.	Regulation of inflammatory gene expression in alternatively activated monocytes	Invited speaker by the Dept. of Biotechnology, Visva Bharati University	Santiniketan, West Bengal, India	6th April, 2015
Chattopadhyay, S.	Combinatorial role of Cam7 And HY5 in seedling development	UGC-SAP symposium	Delhi University South Campus New Delhi	March 2, 2016
Chattopadhyay, S.	Arabidopsis CAM7 and HY5 work in a concerted manner to regulate seedling development	International symposium	Bose Institute Kolkata	December 17, 2015
Chattopadhyay, S.	Light controlled Arabidopsis Seedling development	5th Annual Ramalingaswami Conclave 2015 (Mentor's talk)	RCB, New Delhi	December 18-20, 2015
Chattopadhyay, S.	Light controlled Arabidopsis Seedling development	Special Lecture Series	Centre of Advanced Study, The University of Burdwan	March 22, 2016
Department of Chemical Engineering				
Narayanan C. M.	Green Technologies for Sustainable Development – A Few Successful Case Studies	All India Seminar on Environmental Impact Assessment of Chemical and Allied Industries for Sustainable Development and Climatic Change	Calcutta	May 6 – 7, 2016
Paruya, S.	Optimal Control Policies	Staff Development Programme (FSDP) on "Sensing, Computing and Control (SCC)" under TEQIP-II	University Institute of Technology, Burdwan University	January 21, 2016

Name of the faculty	Title of the lecture	Programme	Place	Date
Department of Chemistry				
Saha R N	Key note lecture in Advanced Wasteater Treatment	two days National Conference on "Challenges and Solution in Construction Industry in Healthy India	Global institute of Management and Technology, Krishnanagar	18-19th March, 2016
Department of Civil Engineering				
Das, D.	A new Approach to Dynamics, Vibration and Control – Wavelet Transform Technique	International Conference on Advances in Dynamics, Vibration and Control	NIT Durgapur	Feb 25-27, 2016
Nanda, R.P.	Seismic vulnerability and loss evaluation of buildings through rapid survey	National conference on "Recent innovation in earthquake resistant techniques"	Dept. of Civil Engg., RVS College of Engg. Tech, Jamshedpur	Nov 9-10, 2015
Roy, P.	Few Latest Simulation Techniques for Reliability Analysis of Structures	International Conference on Advances on Dynamics, Vibration and Control (ICADVC 2016)	NIT Durgapur	February 26, 2016
Department of Computer Science and Engineering				
Pal, T.	Fuzzy Rule Generation using Neuro-Fuzzy Architecture	Seminar	NIT Silchar	Nov 28, 2015.
Pal, T.	Fuzzy logic and hybridization of Fuzzy logic with Genetic Algorithm	Faculty Development Programme on "Computational Intelligence for Optimization Problems"	Calcutta Business School, Kolkata	March 31, 2016
De, T.	Research Trends in Optical Networks	Short term course on "Emerging Research Areas in Network Science"	Asansol Engineering College	January 11-15, 2016

Name of the faculty	Title of the lecture	Programme	Place	Date
Department of Electrical Engineering				
Saha T K	Renewable Energy Challenges & Opportunities- Solar to Grid	National Seminar	Durgapur	4th Feb, 2016
Department of Electronics and Communication Engineering				
Ghatak Rowdra	Revisiting ABCD Matrix in microwave circuit analysis paradigm	one Week TEQIP II workshop on Electromagnetic Theory and Applications	National Institute of Technology Durgapur	08-12 July 2015
Department of Humanities and Social Sciences				
Rai, Shri Krishan	English Studies in Post Colonial India: Shifting the Focus from Canons to Cultural Concerns	'International Conference on 'English Studies and the Marketplace'	Dept of English, EWU, Dhaka Bangladesh	Feb 19-20, 2016
Department of Information Technology				
Mukhopadhyay, S.	Python: A Programming for All IT Department	Short Term Course On OSSSE	NIT Durgapur	December 07 to 11, 2015
Department of Management Studies				
Bandyopadhyay, G.,	Research Methodology	AICTE sponsored Faculty Development Programme (FDP) on Management Research Methodology	JIS College of Engineering, Kalyani	21st April & 29th April 2015
Bandyopadhyay, G,	Research Methodology	Faculty development Programme	Vidyasagar University	24th &25th July 2015
Bandyopadhyay, G.,	Research Methodology	Faculty development Programme	Khalisani Mahavidyalaya (College), Chandannagar	8th December'2015
Bandyopadhyay, G.,	Data analysis using SPSS	UGC Sponsored National Seminar	Deshbandhu College for Girls	5th October,2015
Bandyopadhyay, G.,	Research Methodology	Research Methods and data analysis for Social Sciences and Management	Department of Humanities and Social Sciences Indian Institute of Technology Kharagpur	24th Sep'2015

Name of the faculty	Title of the lecture	Programme	Place	Date
Bandyopadhyay, G.,	Research Methodology	Research Methodology Course in Social Science	Bhawanipur Education Society College	6th & 7th November'2015
Bandyopadhyay, G.,	Optimization Techniques in Sintering	Advancements and Trends in Engineering & Technology Management (AITEM-2015)	Institute of Engineers (India) Durgapur Local Centre	29th August'2015
Bandyopadhyay, G.,	Multi factor Analysis	Research Methodology Workshop in Social Sciences	Department of Education, Vinaya Bhavana Visva-Bharati, Santiniketan	14th February 2016
Bandyopadhyay, G.,	Data Analysis using SPSS	Faculty development Programme	Government College of Engineering & Textile Technology, Serampore	8th & 9th March'2016
De, A.	Advanced Excel	Advanced Information Technology Training Programme	Institute of Chartered Accountants of India, Durgapur Branch	April 4-6, 2015 & April 11, 2015
De, A.	Pearson's Correlation Analysis, Regression Analysis, Logistic Regression, SPSS Commands for Correlation and Regression, Interpretation of result	AICTE sponsored Faculty Development Programme (FDP) on Management Research Methodology	JIS College of Engineering, Kalyani	May 2, 2015
De, A.	Advanced Excel	Advanced Information Technology Training Programme	Institute of Chartered Accountants of India, Durgapur Branch	May 17-19, 2015
De, A.	Presentation of Report	General Management and Communication Skill	Institute of Chartered Accountants of India, Durgapur Branch	August 7-8, 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
De, A.	Working Capital Management, Capital Market and Money Market Operations" and Overview of Financial Management and Preparing Financial Budget	Training Programme for Management Trainees of Bokaro Power Supply Co. Ltd. (a joint venture of SAIL and DVC)	National Power Training Institute (NPTI), Durgapur	October 7& 12, 2015
Dutta Avijan	Discriminant analysis, SPSS Collection of Information including serrch of journal, research paper through internet	AICTE sponsored Faculty development Programme on " Management Research Methodology"	JIS College of Engineering, centre for Management Studies, Kalyani West Bengal	April 30th 2015
Dutta Avijan	Factor Analysis Discriminant analysis	National Workshop on Research Methodology using SPSS"	St Xaviers College Kolkata	6th Oct 2015
Ghosh Amlan	Financial inclusion and public policy in India	Fifth All India Conference on Business and Social Studies	TDB College, Ranganj, West Bengal	Jan 30th 2016
Mandal, Kaushik	Classification and segmentation techniques and its interpretation	UGC Sponsored National Workshop on Research Methodology	St. Xaviers College, Kolkata,India	October 7th 2015
Mandal, Kaushik	Conjoint Analysis	UGC Sponsored National Workshop on Research Methodology	St. Xaviers College, Kolkata,India	October 7th 2015
Mandal, Kaushik	Business Environment	Guest Lecture series	NSHM Durgapur	24th September, 2015
Mandal, Kaushik	Conjoint Analysis & Cluster Analysis	AICTE sponsored Faculty Development Programme (FDP) on Management Research Methodology	JIS College of Engineering, Kalyani	28th April,2015

Name of the faculty	Title of the lecture	Programme	Place	Date
Department of Mathematics				
Pal, A.	Application of Graphs	1 Day Program in Department of Mathematics, Khulna University, Bangladesh	Khulna University, Bangladesh	February 7, 2016
Pal, A.	International Light Year 2015, IYL-2015	1 Day Program in Surenchandra Modern School, Durgapur	Surenchandra Modern School, Durgapur	March 14, 2016
Basu, K.	Multi Criteria decision making methods under fuzzy &Intutionistic fuzzy environment	Workshop on recent development on optimization and operations research	Dept. of applied mathematics, University Of Calcutta	July 29, 2015.
Basu, K.	Some real life decision making problems	International Conference on Recent Trends in Mathematical Sciences and Applications	Dept. OfMathematics,The University Of Burdwan	February 11,2016
Department of Metallurgical and Materials Engineering				
Ganguly, A,	Aim Zero Loss to Innovate Operational Excellence	V Subramony Annual Lecture	Institute of Engineers Durgapur	30th Jan 2016
Ganguly A	Look back to look forward for make in India	Institute of Materials Managment	Institute of Materials Managment, Durgapur	23rd April 2016
Department of Physics				
ChakrabortyA.K.	Carbon Nanotube based Nanocomposites: From Synthesis to Application	DST-UKIERI Bilateral Project Review	The Open University, Milton Keynes, United Kingdom	June 4, 2015
Chakraborty A.K.	Hybrid nanostructures of carbon and metal sulphides: from synthesis to applications	National Conference on Improvised Plasma Technologies for Nanomaterials Processing & Applications	Birla Institute Technology (BIT), Mesra, Off campus, Deoghar	Feb., 25, 2016

Name of the faculty	Title of the lecture	Programme	Place	Date
Chaudhuri H.	India's Geothermal Power Programme– Scientific and Technical aspects and future plan	Renewable Energy Materials and Technology in Academia and Industry	Department of Applied Physics, ISM, Dhanbad, Jharkhand	March 01-02, 2016
Chaudhuri H.	Scientific discoveries, the driving engine of Human Civilization	Celebration of National Science Day, 2016	NIT Durgapur	February 28, 2016
Chaudhuri H.	Radiation Physics in Cancer Management	Science Seminar	Suri Sabujer Avijan, Suri Birbhum, West Bengal, India	Dec. 27, 2015
Chaudhuri H.	Research on Earthquake Precursory Signals at Tatta Pani Hot Spring Site, J&K	Earthquake Hazard: Basic Approaches, Field Investigations and Modelling	Sri Mata Vaishno Devi University, Katra, J&K	Nov. 10 to 16, 2015
Chaudhuri H.	Non-linearity in Earthquake Precursory Signals	International Conference 10 yrs IGRS: 8th Dresden Symposium- Hazard Detection and Management	Dresden University of Technology and SARAD GmbH, Germany	August 31, 2015 to Sept. 04, 2015
Chaudhuri H.	Geothermal Scenario of Bakreswar-Tantloi Geothermal Area	Sub-committee meeting on Geothermal Energy	Geological Survey of India, Northern Region, Lucknow	July 09-11, 2015
Chaudhuri H.	Helium & Geothermal Power and Earthquake Precursory Signals	Discussion meeting on collaborative Project between NIT Durgapur and NIT Srinagar	NIT Srinagar, J&K	July 07-08, 2015
Chaudhuri H.	Disturbing the Earth	Celebration of World Environmental Day, 2015	Bidhanagar, Durgapur	June 05, 2015
Chaudhuri H.	Exploration of Helium and Geothermal Power	National Training Programme on Advances in New and Renewable Energy Materials and Technology	Department of Applied Physics, ISM, Dhanbad, Jharkhand	March 23 to 27, 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
Chaudhuri H.	Nuclear Renaissance in India	National Training Programme on Advances in New and Renewable Energy Materials and Technology	Department of Applied Physics, ISM, Dhanbad, Jharkhand	March 23 to 27, 2015
Chaudhuri H.	Measurement techniques of lighter and heavier compositions of a liquid or gas sample	Short-Term course on "Experimental Techniques for Material Characterization (ETMC–2015)	NIT Durgapur	February 27 to March 3, 2015
Kumbhakar P.	Fundamentals and Applications of Nanoscience and Nanotechnology in Societal Change	Special Summer School (Invited talk),	Ranchi University, Ranchi	June 3, 2015
Kumbhakar P.	Introduction to NMEICT and Development of Leadership Skills for Digital India	Special Summer School (Invited Talk)	Ranchi University, Ranchi	June 4, 2015
Kumbhakar P.	Fundamentals and Applications of Nanoscience and Nanotechnology	2nd RC in Nanoscience & Technology, Aug. 4-24, 2015 (Invited Talk)	HRDC, Golapbag, Burdwan University, Burdwan	Aug.6, 2015
Kumbhakar P.	Fundamentals and Recent Trends in Nanoscience and Nanotechnology	Guest Lecture (Invited Talk)	Sambalpur University, Odisha	Aug. 17, 2015
Kumbhakar P.	Fundamentals and Applications of Nanosciences in Future Photonics Devices	Conference on "Photonics– the key for the next generation technology" under OSI foundation lecture program	Sidho-Kanho-Birsha University, Purulia	Sept. 30, 2015
Kumbhakar P.	Photocatalytic and Giant Nonlinear Optical Properties of Some 2D Nanocomposite Materials	Golden Jubilee International Conference on Recent Advances in Chemical And Biochemical Engineering	NIT Durgapur	Oct.2 – 4, 2015

Name of the faculty	Title of the lecture	Programme	Place	Date
Kumbhakar P.	Importance of Photonics and Nanotechnology in Real Life	Special Lecture	Hem Sheela Model School Durgapur	Dec. 3, 2015
Kumbhakar P.	Photoluminescence, Nonlinear Optical and Photocatalytic Properties of Some 2D Nanocomposite Materials	International Conference on Advances in Light Technologies and Spectroscopy of Materials-2016 (Invited Talk)	University of Lucknow, Lucknow	Jan. 15-18, 2016
Kumbhakar P.	Photonics and Nanotechnology Applications in Real Life	DST (WB) Sponsored Residential Science Camp (Invited Talk).	Bikna Kshirode Prasad Smrti Vidyapith (H S School), Keshiakole, Bankura	March 12, 2016
Kumbhakar P.	Optical Limiting and Photocatalytic Properties of Some 2D Nanocomposites	National Conference on "Micro and Nano Electronic Systems and Devices-2016" (MINO-IV) (Invited Talk)	Vivekananda Institute of Technology (East), Sisyawas, Jagatpura, Jaipur (Rajasthan)	March 18-19, 2016
Meikap A.K.	Alternating Current Conductivity and Relaxation Behavior of Polyvinyl Alcohol - Mercury Selenide Nanocomposite Films	One day Symposium on "Functional Materials: Recent Trends"	Presidency University, Kolkata	January 29, 2016
Meikap A.K.	Electrical Transport Properties and Microstructural Properties of Zn0.98Mn0.02O Nanocomposites	4th International Conference on "Advanced Nanomaterials & Nanotechnology (ICANN-2015)"	Indian Institute of Technology Guwahati, Guwahati – 781039	December 10, 2015
Mondal A.	NDPA-2015	NSHM Knowledge Campus	Durgapur, W.B.	September 26th , 2015
Sahoo S.	New Edges of Physics	Training programme of senior secondary level Physics PGTs of West Bengal	SCERT, Kolkata, WB	4th – 8th January, 2016.

Name of the faculty	Title of the lecture	Programme	Place	Date
Sahoo S.	Current issues in High Energy Physics	National Seminar on "Recent Trends in Sciences and Humanities (RTASH–2016)	DIATM, Durgapur	February 19 – 20, 2016
Sahoo S.	Some current issues in High Energy Physics and Cosmology	National Seminar on "Advances in Physics during the last half century and its applications to society"	Gangadhar Meher University, Sambalpur, Odisha	February 27 – 28, 2016

Annexure 11.16 (g): Session chair/convenor

Department of Biotechnology

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Roy -Barman, S.	Session Chair	International conference on microelectronics, computing and communication	NITD		Jan 23 – 25, 2016
Department of Chemical Engineering					
Narayanan C. M.	Sessoon Chair	ISHMT – ASTFE International Heat and Mass Transfer Conference	Trivandrum	Heat transfer equipment	December 19, 2015
Narayanan C. M.	Sessoon Chair	Chemical Engineering Congress – 2015	Guwahati	Modelling and simulation	December 30, 2015
Narayanan C. M.	Sessoon Chair	All India Seminar on Environmental Impact Assessment of Chemical and Allied Industries for Sustainable Development and Climatic Change	Calcutta	EIA	May 7,2016
Narayanan C. M.	Chairman, Organising Cmmittee	Golden Jubilee International Conference on Recent Developments in Chemical and Biochemical Engineering	Durgapur	---	October 2-4,2015

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Narayanan C. M.	Chief Coordinator	All India Students' Engineering Congress - 2016	Durgapur	--------	February 20 – 21, 2016
Mandal T	Session chair	Desalination for the Environment Clean Water and Energy	Rome	34 Removal of conta-minants	may 24, 2016
Department of Chemistry					
Mukhopadhyay B.P.	Session Chair	3rd National seminar on "Recent Trends in Applied Sciences and Humanities"	Dept. of Applied Sciences and Humanities, DIATM Rajbandh, Durgapur-12, India	Chemistry and Applied science	20-02-2016
Department of Civil Engineering					
Das, D.	Session Chair	International Conference on Advances in Dynamics, Vibration and Control (ICADVC-2016)	NIT Durgapur	Vibration due to Seismic and Blast loading	Feb 25-27, 2016
Nanda, R.P.	Session Chair	Int. Conf. on Advances in Dynamics, Vibration and Control (ICADVC-2016)	Dept. of Civil & Mechanical Engg., NIT Durgapur.	Vibration Isolation	Feb.25-27, 2016
Roy, P.	Session Chair	International conference on Advances in Dynamics, Vibration and Control (ICADVC 2016)	NIT Durgapur, Durgapur	Track CE1b Structural System, Modeling and Responses	February 25- 27, 2016
Department of Computer Science and Engineering					
Dalui, M.	Session Chair	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	Durgapur	Quantum Dot Cellular Automata	Nov 16-18, 2015
De, T.	Session Chair	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	Durgapur	-	November 16-18, 2015
De, T.	Session Chair	3rd IEEE International Conference on Business and Information Management 2016(ICBIM 2016)	Durgapur	-	January 9-11, 2016

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
De, T.	Session Chair	International Conference on Intelligent Computing and Communication-2016 (ICIC2-2016),	Kalyani	-	February 18-19, 2016
De, T.	Session Chair	6th IEEE International Advance Computing Conference (IACC-2016).	Bhimavaram-Andhra Pradesh	-	February 27-28, 2016
Kisku, D.R.	Session Chair	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	Durgapur	Data Mining	Nov 16-18, 2015
Pal, T.	General Chair	4th International Conference on Frontiers in Intelligent Computing: Theory & Applications (FICTA 2015)	Durgapur	----	Nov 16-18, 2015
Roy, S.	Session Chair	MicroCom 2016	Durgapur	Microele-ctronics and VLSI	January 23-25, 2016
Sen, B.	Session Chair	MicroCom 2016	Durgapur	Microele-ctronics and VLSI	January 23-25, 2016
Department of Electrical Engineering					
Banerjee S	Session Chair	IECON 2015	Yokohama-city, Kanagawa, Japan	Power Electronic Converters III	9th -12th Nov, 2015.
Acharjee P.	Session Chair	IEEE Conference on Microelectronics, Computing and Communication (MicroCom)	ECE Dept., NIT Durgapur, India	ECPGL: TS-2 Track: Power Electronics and Power Systems'	23rd January, 2016
Acharjee P.	Session Chair	IEEE Conference on Microelectronics, Computing and Communication (MicroCom)	ECE Dept., NIT Durgapur, India	ECPGL: TS-5: Track: Control Systems	24th January, 2016
Saha T K	Session Chair	MicroCom 2016	Durgapur, 2016	Power Electronic Converters III	23rd to 25th Jan 2016.

Name of the faculty	Session Chair/ convenor	Programme	Place	Session	Date
Department of Electronics and Communication Engineering					
Ghatak Rowdra	Session Chair	MicroCom 2016	NIT Durgapur	Oral Technical Paper Presentation	January 2016
Kundu Sumit	Session Chair	IEEE ANTS 2016	ISI Kolkata	Signal processing	18th Dec 2015
Kundu Sumit	Session Chair	International Symposium on Wireless Personal Multimedia Communications (WPMC)	Hyderabad	Wireless Communi-cation	13 Dec - 16 Dec 2015
Department of Humanities and Social Sciences					
Rai, Shri Krishan	Session Chair	International Conference on 'English Studies and the Marketplace'	Dept of English, EWU, Dhaka Bangladesh	Cinema and English	Feb 19-20, 2016
Department of Information Technology					
Mitra, D.	Session Chair	IEEE International conference on Microelectronics, Computing and Communication (MicroCom 2016)	Dept. of ECE, NIT Durgapur, India	Microele-ctronics & VLSI	Jan 23-25, 2016
Mukhopadhyay, S.	Finance co-chair	FICTA, 2015 conference	NIT Durgapur (Peereless Sarovar Portico)	Throughout FICTA, 2015	Nov. 16-18, 2016
Nandi, D.	Session Chair	IEEE International Conference on Microelectronics, Computing and Communication, (MicroCom 2016)	Dept. of ECE, NIT Durgapur, India	Image Processing	Jan 23-25, 2016
Nandi, D.	Session Chair	Frontiers of Intelligent Computing: Theory and Applications (FICTA 2015)	Dept. of CSE, NIT Durgapur, India	Image Processing	Nov 16-18, 2015

Annexure 11.17 Other information

Prof. C. M. Narayanan , Guest Editor, Special Issue, Journal of modern Chemistry and Chemical Technology, Volume 7(No. 1), 2016. Contains selected research papers presented during Golden Jubilee International Conference-2015 hosted by Department of Chemical Engineering

The Department of Chemistry has started taking practical classes in the new laboratory building from 2015 odd semester. New research laboratories have been set up in the new Chemistry laboratory cum Biotechnology building.

De, T. served as a member of Technical Program Committee for 6th IEEE International Advance Computing Conference (IACC 2016)

Sarker G. was awarded "Certificate of Reviewing" in recognition of the review made to the 6th IEEE International Advanced Computing Conference (IACC 2016) on 27.02.16.

Dr. Sarker G. is a Member of Editorial Team, International Journal of Computer Sc. & Algorithms on and from 11.03.16

Dr. Sarker G. received thanks from Organizing Team, IEEE, WCI, 2015, IIT Kanpur, for reviewing Paper "An Affix Removal Stemmer for Gujarati Text" on 02.11.15.

Dr.Kisku, D.R. served as a member of Technical Program Committee for Third International Symposium on Computer Vision and the Internet (VisionNet'16)

Dr.Kisku, D.R. served as a member of Technical Program Committee for International Symposium on Intelligent Systems Technologies and Applications (ISTA'16)

Dr. Anupam De acted as an Observer for the Chartered Accountants Examinations held in November, 2015 for the days of 6th, 7th and 8th of November, 2015 conducted by the Institute of Chartered Accountants of India (set up by an Act of Parliament).

Prof. Neelotpaul Banerjee was invited as a resource person in AICTE – sponsored Faculty Development Programme (2-week) at JIS College of Engineering,Kalyani, held on 21st April to 4th May 2015.

Dr N. B. Hui Organized a Conference on Advances in Dynamics, Vibration and Control during Feb. 25-27, 2016 as a Jt. Org. Secretary

NOTES

NOTES

NOTES

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

Phone: +91-343-2546397
Fax: +91-343-2547375
URL: http://www.nitdgp.ac.in