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# JIS College Engineering

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## *Annual Quality Assurance Report*

*Submitted to*

*National Assessment and  
Accreditation Council*

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Year 2012-2013

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# JIS COLLEGE OF ENGINEERING



## ANNUAL QUALITY ASSURANCE REPORT 2012-13

### PART -A

#### Academic Plan for the Year 2012-13

The academic year commenced with a staff meeting in which the Principal presented the action plan formulated at the end of the last academic year. The action plan was circulated to all departments for detailed discussion. The final draft was prepared by the IQAC incorporating department level modifications. The Action Plan for the academic year 2012-13 in respect of the ten criteria is as following.

#### ❖ CURRICULAR ASPECT

##### ➤ Value Addition Programme

- ✚ Conduct training programmes in Personality Development and Soft Skills.
- ✚ Provide orientation programme to the staff and students to introduce the details of UG & PG programme under Autonomous Structure.
- ✚ In order to strengthen knowledge base in the various disciplines and going for a multi disciplinary approach, degree certificate courses may be started by all departments.
- ✚ Provide an orientation programme to the staff and students to introduce the programmes of the college.
- ✚ The documentation of activities already introduced must be continued. The responsibility of documentation may be allocated to the IQAC member of the department.
- ✚ Staff development programmes to be focused.
- ✚ Research and development to be focused
- ✚ Infrastructure to be augmented.

##### ➤ IQAC shall evolve mechanisms and procedures to improve the academic and administrative performance of the institution by:

- ✚ Preparing Annual Quality Assurance Report
- ✚ Developing quality benchmarks for the various academic and administrative activities.

- ✚ Documenting various programmes.
- ✚ Disseminating information on various quality parameters of higher education.
- ✚ Introducing innovative methods of teaching, learning and evaluation
- ✚ Value addition of staffs and knowledge base

➤ Enhance the quality of the existing programmes provided by the college such as :

- ✚ Yoga classes / Gymnasium
- ✚ Remedial classes
- ✚ Personality Development and Communication Skills
- ✚ Coaching Classes for Entry in Services.
- ✚ Computerized accounting package using ERP, Payroll
- ✚ GATE/ MAT/ JECA coaching
- ✚ Promoting Sports & Cultural activities through club activities
- ✚ Imparting knowledge in different foreign languages

➤ Interdisciplinary programmes

Interdisciplinary programmes to be organized by way of invited talks, seminars, national & international conferences, etc. under the auspices of subject associations and various clubs functioning in the college.

## ❖ TEACHING LEARNING AND EVALUATION

➤ **Preparation of Objective Driven Teaching Plan.**

A detailed lesson plan in accordance with the learning objective is to be prepared. Academic Record it in the register kept in the department and Teacher's Diary. Under the semester system design the syllabus so as to finish it in 4months.

➤ **Continuous evaluation diary maintained by our Faculty Members will be continued, which contain**

- Tutorial hours with the names of the students
- Administrative, curricular and co-curricular activities
- Study Objective
- Lesson Plan
- The topic and the class engaged
- Teaching methods
- Questions & results of the surprise test

➤ **Evaluation of teachers** by students will be conducted periodically through online systems and will be intimated personally.

➤ **Internal academic audit** will be conducted.

➤ **Documentation** of various activities and maintenance of the existing files up-to-date. They may be submitted for internal audit.

## ❖ **Learner Centric Methods Of Teaching**

To make students' involved in the teaching learning process, new and innovative teaching techniques in addition to the traditional lecture method must be evolved. The faculty members will employ learner centric techniques such as web related assignments, peer teaching, discussion method, experiential learning, use of audio-visual aids, case study, projects, surveys, Quiz etc in the delivery of academic programmes.

### ➤ **Human Resource Development Training for students (HRD Training)**

With the cooperation of different associations and clubs, a course spread over a year at flexible time schedule will be organized to build up competence and skill for students. A committee consisting of the co-coordinator of the concerned co-curricular programme will monitor the programmes. The course consists of **Life Guidance Programme, Career Awareness, Personality Development and Leadership Training and Communication Skill**.

## ❖ **Mentoring**

Each member of the departments is attached to Mentorship programme. Each member of the teaching faculty is entrusted with the task of mentoring 10 to 15 students. They are responsible for academic and personal mentoring. This is to strengthen the bonds of appreciation and affection that exists between teachers and students. Interaction with students and counseling them help in their personal development. Tutors may keep the progress of the students in the Teacher's diary. This method ensures one to one assistance provided to the students.

## ❖ **Training for ICT enabled teaching and learning**

Teacher Training programmes will be organized periodically to train the staff in ICT based teaching. The students may be encouraged to prepare slides, transparency sheets and power point presentations as part of their assignments and project presentations. This makes the teaching –learning process a two way process, involving both the teachers and learners.

Improve the annual exhibition by incorporating hobby collections and projects of students. To conduct workshop for teachers on “Semesterisation, Grading, Choice Based Credit System and Continuous Internal Evaluation”.

## ❖ **Research, Consultancy And Extension**

The Research and Development Committee has the goal of inculcating a research culture among the faculty and students. The Committee will give encouragement to pursue research programmes and undertake minor and major research projects. The committee will provide guidance in preparing proposal for research projects, seminars, conferences etc. Periodic meetings of the research scholars will be arranged for the presentation of their completed works. The committee will prepare the proposal for basic developmental assistance during the period.

- To apply for minor and major research projects by all faculty.
- To fulfill the eligibility for PG grant
- Paid Consultancy for mobilizing funds for the department.

Mr Soham Sengupta, Assistant Professor, Deptt of IT is engaged as Consultant with role of Android Architect and Device Integration Expert at Zreayas Technology inc. (Dec 2012 - June 2013)

## ❖ **Infrastructure And Learning Resources**

- To purchase a new generator to compensate electricity failure in the campus.

- Involvement of students and staff and other stakeholders will be ensured in keeping the campus clean and eco friendly.
- Periodic cleaning by students under the direction of teachers to keep the campus litter free and plastic free.
- Updating the laboratories and class rooms with the cooperation of PTA in different phases by 2012.
- Make available library reference section to members from 8am to 8pm.
- Extending library membership to the Alumni.
- Expansion of Internet lab and appointing full time internet administrator.
- To purchase more Computers and UPS to various subunits of the College.
- To purchase modern lab equipments with the AICTE grant.
- To provide Broad Band Internet Connectivity in all departments.

### ❖ **Student Support and Progression**

- Involving the final Degree and PG students in the Alumni Association activities and conduct induction ceremony for outgoing students.
- To inform the students about various scholarships and awards instituted by the college and other well-wishers through college Handbook and Calendar and also through College Website.
- Encourage all U.G. students to undergo GATE/ MAT/ CAT training. Class teachers may collect the names and hand it over to the coordinator.
- Progression and Placement data to be updated every year.
- To conduct a JIS Group inter college level NSS camp.
- Promote and continue Club Activities.

### ❖ **Governance and Leadership**

- Budget Proposals from all departments to be centrally integrated with a clear and transparent policy.
- Periodical staff meetings to be conducted.
- Different committees may be constituted and continued like BOS etc for effective functioning of the departments.
- Enhance the functioning of the Grievance Redressal Committee, Disciple Committee, Anti Ragging Committee..
- Keep the files up to date and provide necessary information to the IQAC.
- Departmental meetings be arranged periodically to review the progress of the academic plan for the current year.
- Non teaching staff will be given training in file management, clerical and secretarial works.

### ❖ **Innovative Practices**

- Continue the existing best practices.
- Introduce innovative and unique practices by each department for the welfare and academic excellence of the students.
- Keep the campus clean as part of the association activity.
- Maintenance of garden, Playground, Auditorium, Gymnasium, Sports room.
- Through the media centre all programmes and information will be put on website.
- All programmes of the departments and associations should be launched online.
- Continue Publish manuscript magazines centrally as well as by all departments and publish selected works from manuscript magazines in the college magazine.

## PART B

### 1. The activities reflecting the goals and objectives of the Institution

#### a) Curricular activities

The college maintains an impeccable track record in the University Examination Result over the years in all of the courses delivered.

#### Results of University Final Examination for 2013 Pass-Out Batch

PASSING YEAR	STREAM	NO. OF STUDENTS' APPEARED	PASSED	FIRST CLASS	PASS PERCENTAGE
<b>2013</b>	CSE	128	128	127	100
	IT	72	72	69	100
	ECE	121	121	119	100
	EIE	59	59	54	100
	EE	96	96	96	100
	BME	29	29	29	100
	ME	61	61	61	100
	M.TECH-MCNT	4	4	4	100
	M.TECH-EDPS	14	14	14	100
	M.TECH-SE-IT	6	6	6	100
	M.TECH-CSE	17	17	17	100
	M.TECH-AEIE	5	5	5	100
	M.TECH-MBI	1	1	1	100
	MCA	52	52	52	100
	BCA	36	35	34	97.22
	MBA	34	30	21	88.24
BBAH	22	22	10	100	

#### b) Value addition programmes

1. Dept. of Computer Science and Engineering
  - A. Add on Training on E-business, Basic Computer Architecture and Networking, Advance Training on Data Security.
  - B. Conducts training to all departments on basic computer awareness
  - C. Personality Development and Communication Skill
2. The JISCE is a registered Vocational Training Provider and got Approval under Vocational Training Provider Scheme, Govt of WB for 36 short term courses. Short term course on Health Care Multipurpose Worker (Sub Code MED 133) is starting.

3. Department of IT: Initiatives have been taken for some short term courses on Latest Technologies like Mobile Apps, ZK, Vaadim, EXT-JS .NET platform etc.
4. Initiatives have been taken to start short term programs on Software enable civil engineering design.

### c) Continuous Evaluation

- JIS College of Engineering has developed over the years a transparent and objective oriented operation method of Continuous Evaluation System (CES). The system functions on
  1. A printed Continuous Evaluation Track Book is circulated to all faculty members to keep track of the CES and administer the system. The record of stream wise, semester wise and batch wise teaching days, number of theory and laboratory classes along with section of the Subject Module Taught and Weekly tests or evaluation made are maintained in the diary. Any shortfalls on the part of the students are reported to the respective MENTORS by the respective faculty for initiating remedial action.
  2. From the commencement of semester each faculty member plan and record Lesson Plan and corresponding Delivery of Lecture.
  3. Relevant questions, Case studies etc and Examination Book and Result are maintained regularly.
- The entire system is monitored and evaluated by College Management and Panel Senior Academicians and experts.
- As a part of CES two INTERNAL ASSESSMENT EXAMINATIONS per semester were conducted after having announced the dates sufficiently early with a common time table for all classes and with all teachers invigilating the examination. The first internal assessment examination during ODD Semester was conducted between 20<sup>th</sup> September 2012 to 21<sup>st</sup> September 2012 and the second test was conducted between 12<sup>th</sup> November 2012 and 16<sup>th</sup> November 2012 and during EVEN Semester dates were 18-19 March 2013 and 17-18 April 2013. General body of Parent Teacher Meet is conducted after each Internal Test to assess the progress of students immediately after the first internal assessment examination.
- Tutorial system is planned, executed and monitored through sound planning and each day two/ three classes are allocated in the class routine for all the batches across all streams. The present batch size is restricted to 20 students per batch to provide one to one interaction opportunity.

### c) Mentorship System

To assist and develop students the college has developed a system through past experience, rigorous scrutiny and planning. The entire student community from the first year is divided in small groups of 10. Each group is assigned with a faculty member who interacts with them on a one to one basis and keep track to all the necessary details. A Mentorship Track Sheet is circulated to all mentors who are guiding and developing the students. The sheet is regularly updated with the data such as the class performance and attendance, academic and co curricular performance of the student. Even the mentors meet the guardians on a regular interval and exchange views on the academic and emotional development of the student.

**d). Details of seminars/Workshops/Conferences organized by the Departments Seminars/workshops conducted**

Date	Topic	Organizing Department	Level	Speaker Invited	Sponsored by
29.08.13	National Seminar on "Production Planning, Scheduling & Inventory Control (NSPPSIC-2013)	ME	National	i.Prof. (Dr.) C.Rajendran, IIT, Madras ii.Prof. (Dr.) P.K.Roy, IIT Kgp iii. Mr. Subrata Pal, National Productivity Council, New Delhi	TEQIP
21.08.13	Application of Engineering In Medical Sciences(NSAEMS-2013)	BME	National	i.Dr. Sucharita Chakravorty, HOD, Dept. of Anesthesiology, Fortis Hospital ii.Dr. Debashis Das, Opthamologist & Vitreo-Retinal Surgeon, Eye Foundation & Research Centre, Kolkata iii. Dr. Nirjhar Bhattacharya, Prof. Dept. of General Surgery, NRS Medical College, Kolkata	TEQIP
14.08.13	National Seminar on "Micro strip Antenna Research :Current Trends" (MARCT-2013)	ECE	National	i.Dr. Bhaskar Gupta, Professor, Electronics & Telecommunication Engg, JU ii.Dr. Chinmoy Saha, Dept. of Avionics, Indian Institute of Space Science & Technology, Thiruvanthapuram iii.Dr.Debatosh Guha, Professor, Radio Physics & Electronics, CU	TEQIP
06.08.13	National Seminar on "Recent Advances in Manufacturing Technology"	ME	National		College
12.07.13	National Seminar on "ADVANCEMENT IN BIOMATERIALS & BIOMECHANICS"(N SABB-2013)	BME		1.Dr Amit RoyChowdhury, Associate Professor, Dept. of Applied Mechanics, Bengal Engineering & Science University 2.Prof. (Dr.) D N Tibarewala, Professor, School of Bioscience & Engineering, Jadavpur University. 3.Dr Kunal Pal, Assistant Professor, Dept. of Biotech & Med. Engg. NIT Rourkela.	TEQIP
07.06.13	One Day Workshop on "Role of HODs & Good Governance"		Institutional	i.Dr. Ranjan Bhattacharya, JU ii. Mr. Pratul Roy, Advocate, Govt. Council iii. Mr. Arobinda Mukherjee, Former GM, WBIDC	TEQIP
10.05.13	National Seminar on "Role of Power	EE	National	i.Dr. Krishnendu Chakraborty, Principal, KGEC	TEQIP



	Electronics & Drive in Modern Technology(RPEDMT -2013)			ii.Dr. Sujit Kr. Biswas,Former Head , EE, Dept. , JU iii. Dr. Sumana Chowdhury, Applied Physics Dept., CU	
08.05.13	National Seminar on “ R.C.C. Structure of Tall Buildings (NSRCCSTB-2013)	Civil	National	i.Dr. Beharilal Eshpuniyani, BITS Pilani, IIT Kharagpur ii. Prof. Arun Kumar Chakraborty, BESU, Shibpur	TEQIP
24.04.13	Seminar on “ GSM and Optical Fiber Network”	ECE	Institutional	i. A.R.Bagchi, Ex faculty member of NSCBTTC, BSNL, Kalyani ii. Tapan Ghosh, faculty member of NSCBTTC, BSNL, Kalyani	TEQIP
14.03.13	Seminar on “ Instrumentation in Power Plant”	EIE	Institutional	i.Dr. Nirmalendu Chatterjee, Former HOD, EE, JU ii.Dr. Chittotosh Bhattacharya, Dy. Director, NTPTI	TEQIP
27 <sup>th</sup> -28 <sup>th</sup> Feb, 2013	Workshop on “Ethical Hacking & Cyber Security”	JISCE	Institutional	Invited Industry Experts (Association with i3indya Technologies)	TEQIP
25-26 <sup>th</sup> February, 2013	Workshop on Robotics	JISCE	Institutional	Invited Industry Experts (Association with i3indya Technologies)	TEQIP
08.02.13	Seminar on “FDI in Indian Retail”	MBA	Departmental	i.Mr. Kalyan Kar, Co-Founder & Managing Director, Inthink Knowledge Ventures ii.Mr. Prasanta Roy Choudhury, Head- Personnel & HR, Exide Industries Ltd.	JIS Group
13.2.13	National Workshop on Simulation Approach Towards Signal Systems (WSA2S)	ECE	National	i.Prof. Salil Sanyal, Dept. of ETC, JU ii.Mr. Quazi Md. Alfred, ECE Dept., UIT, Burdwan	TEQIP
11 <sup>th</sup> & 12 <sup>th</sup> January, 2013	International Conference on IC3A	IT	International	i.Prof. Balaguruswami, Chairman ii.Prof. Ajoy Roy, VC, BESU iii. Prof. Sibaji Chakraborty iv.Prof. Vandarmast, Netherland v. Foreign Delegates from Germany(Dickhoven, Kotala, Brinkman, Peter Krotz, Glock Helmut)	TEQIP
04.08.12	Seminar on “ Challenges of Climate Change –Role of Renewable Energy”	JISCE in collaboration with FOSET	Institutional	i.Prof. (Dr.) SP Gon Chaudhuri, President, NBIRT ii.Prof. Arunabha Majumdar, JU iii.Mr. Sushobhan Bhattacharya, Director, WBREDA & MD, WBGEDCL iv.Prof. T.K.Sengupta, Campus Director, SKFGI, Hooghly	JISCE
16-17 July, 12	A Two day Workshop on Analog System Design Using ASLK	BME	Institutional	M.Narendra Babu, Cranes International	Texas Instruments University Program, Cranes

11, 12, 13, July-12	Workshop on Engg. Application on MATLAB & LAB View	EIE	Institutional	i. Dr. P.K.Banerjee ii. Dr. Partha Pratim Sarkar, KU iii. Dr. J.P. Bandyopadhyay, CU i. Dr. A.K.Roy, Principal(Actg. ) DSCSDEC	JISCE
07.06.12	Workshop on “ Community Radio Station(CRS)	ECE	Departmental	i.Dr. B.N.Biswas, Fellow FWBAST, FIETE ii.A. Bandyopadhyay, GM, Webel Mediatronics Ltd. Kolkata	JISCE in collaboration with Webel Mediatronics Ltd. Kolkata
04.06.12	Seminar on “Transit of Venus”	JISCE in Collaboration with Paschimbannga Vigyan Mancha	Institutional	Dr. Chirantan Neogy	JISCE
12.04.12	Workshop on “Basic Manufacturing Process “	Mechanical Engg. Dept. in collaboration with the Institute of Indian Foundrymen, Kolkata Chapter	Institutional	Prof. G. Sutradhar, Dept. of Mechanical Engg. JU	JISCE

**e) Teacher Quality Enhancement:** Ph.D. Degree conferred to 5 faculties.

Dr P K Bardhan	ME Department
DR SS Gupta	CSE Department
Dr Swagata Bhattachraya	Physics Department
Dr Subhranil Som	CA Department
Dr Karabi Ganguly	BME Department

Three faculty members have submitted and awaiting the award of the degree.

**f) Publications : Annexure I**

**g) Co-Curricular and Extracurricular Activities**

### ➤ Student Life Centre

Student Life Centre aims at enhancing the quality of student and campus life through offering programs, services and resources to foster a sense of community among students and nurture talents in all directions. Throughout the year, the staff and student fellows organize wide variety of social events, Graduate Student Life plans Arts, music, sports, religious, spiritual and wellness events; family-oriented and global study opportunities; and public service

opportunities. SLC organizes orientation for new students and Commencement activities for the Graduate School and provides information, advice and advocacy for all students in the Graduate School regarding personal concerns and student life issues, including the delivery of college services and life in campus.

The SLC provides and nurtures Club Activities at the campus. As on date the following clubs have been formed and are engaged in focused are of activities.

<b>Computer Society</b>	<p>Study and nurture new technologies and techniques live ANDRIOD SYSTEMS, Open Source Code Languages, Data Science and conduct seminars, and invited talks on important and contemporary issues.</p> <table border="1" data-bbox="492 520 1385 892"> <thead> <tr> <th>SN</th> <th>Event Name</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Awareness for Professional Association</td> <td>Demonstrate among the portfolio Members Circulation to all the members, Intimation slip from the Professional Association.</td> </tr> <tr> <td>2</td> <td>Student Membership for Association for Computing Machinery(ACM)</td> <td>Initiate data into ACM Call for Membership interface</td> </tr> <tr> <td>3</td> <td>Formation of Student Chapter</td> <td>After getting adequate membership of the students, student chapter could be formed.</td> </tr> <tr> <td>4</td> <td>Subscription for Digital Library of ACM</td> <td>Will do apply to the authority.</td> </tr> </tbody> </table>	SN	Event Name	Action	1	Awareness for Professional Association	Demonstrate among the portfolio Members Circulation to all the members, Intimation slip from the Professional Association.	2	Student Membership for Association for Computing Machinery(ACM)	Initiate data into ACM Call for Membership interface	3	Formation of Student Chapter	After getting adequate membership of the students, student chapter could be formed.	4	Subscription for Digital Library of ACM	Will do apply to the authority.
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<b>Mathematics Club</b>	<p>To popularize and making study of mathematics a pleasant and interesting experience and to explore utility of resources for practical industrial potential through organizing popular lectures and workshops and to groom interested students to participate at national and international levels.</p> <p><b>Program Calendar:</b></p> <ol style="list-style-type: none"> <li>08 Nov, 2013 Friday: Galois's Birthday.</li> <li>14 Mar, 2014 Friday: Pi Day.</li> <li>6 June, 2014 Friday: Phi Day.</li> </ol>															
<b>Art &amp; Literary Club</b>	<p>Publish "VOYAGE", an annual magazine from the college and helps in publishing "Ignite", JIS GROUP quarterly. Apart from such activities the club aims at developing culture of wide study, cotemporary studies, drawing, essay, communication, debating, and quizzing and presentations events.</p>															
<b>Photography Club</b>	<p>A group of passionate armature lover of photography forms together to develop and spread the fine techniques and sense and beauty of photography. They organize periodically exhibitions, presentations and invite guest lecturers of professional photographers from regional News Agencies, Photography Societies etc.</p>															
<b>Music Club</b>	<p>The Club foster the passion for Indian Classical Music, Fusion Music and other forms of Vocal Nad Instrumental music and performs and show their talent at all the college events and outside. They organized Indo Japanese Fusion Music Conference, Talks by eminent exponents and organize competitive events.</p>															
<b>National Service Scheme Club</b>	<p>The club encourages and develops among the students a community feeling. The club conducted several tree plantation campaigns, Campus Cleaning and Plastic Free Campus Campaign, Blood Donation Camps and proposed to start local slum development and adult education campaigns.</p>															
<b>Department of Sports</b>	<p>The club promotes Indoor and Out Door Games among the students and staff, organize short time seasonal coaching camps and organize competitive events. They have organized Inter Faculty Football, Cricket, Volleyball Tournaments, actively participates</p>															

	<p>in organizing the Inter Group SJST Cricket Tournament, organize Chess, Carom and Table Tennis Tournaments periodically.</p> <ul style="list-style-type: none"> <li>➤ Champions trophy Cricket Tournament at Heritage Institute Of Technology, Kolkata, Runners UP</li> <li>➤ “Champions trophy Cricket Tournament” from 10 April to 16 April 2013.</li> <li>➤ Runner’s up at Inter College 20-20 Knock Out Cricket Tournament (JECLAT 2013), J.G.E.C (Jalpaiguri) at Jalpaiguri Govt.Engineering College</li> </ul>
<b>Environment al Education Society</b>	The club promotes and nurtures the environmental consciousness and study pertaining issues of pollution, global warming etc and conduct awareness campaigns, workshops, lectures etc. they annually conduct GO-GREEN CAMPUS CAMPAIGN, celebrate World Environment Day, Earth Day regularly.
<b>Community Connect</b>	<p>The club aims at creating a bridge between the Campus and the Community at large. The club extends different support activities to the society and collaborates with different bodies to achieve a synergy.</p> <p>The club organizes Free Dental Check Up Camps for the community, Blood Donation Camp, Environmental Awareness Camps etc periodically.</p> <p>Before the festival seasons new clothes were distributed to the local orphanages.</p> <p>A day out programme at JIS College of Engineering Temple by the resident of five old-age home was organized by the member of the club. Arrangement of devotee song, lunch, evening snack was made on the day.</p>
<b>Engineering Modeling Club</b>	<p>The club designs, plans models and devise development and participate in different events. Notably in the area of Robotics, Android Development, Java, PLC, Power Devises, Bio Medical Instrumentation etc.</p> <p>Every year the club organize a two day Technological Fest where numerous clubs, colleges participate and exchange views and share expertise and exhibit new devises.</p>
<b>Science Club</b>	The club nurtures and spread scientific aptitude and culture among the students and in the local community and schools. Further they study local problems and new frontiers of sciences and periodically publish E-Digests. Organize seminars, invited talks on important and contemporary issues; Sky Watching etc are regular activities.

## ➤ WOMEN’S CELL

With the mission of enlightening the women students and employees about their legal right and to strive towards the empowerment of the women through the promotion of gender amity and programmes concerning women welfare the Women Cell was created.

The basic OBJECTIVES of the CELL are

- ✚ To sensitize the JIS College of Engineering community on gender equity issues through organizing sensitivity programmes like seminars, publishing handouts etc.
- ✚ To promote general harmony and prevent discrimination of women and sexual harassment in the institutes by providing practical suggestions to the administration from time to time.
- ✚ To deal with any instance of discrimination of women or sexual harassment by an employer or students in respect of any other employee or students of JIS College of Engineering.
- ✚ To make students aware of Gender Equity.
- ✚ To help students to change their mindset and attitude towards life in terms of women.
- ✚ To build a society with social and economic gender equality as envisaged in the Indian Constitution through social service.

- ✚ To reach out to women in the rural areas and make them aware of their social and legal rights and to equip them to stand against gender violence and gender discrimination.
- ✚ To create awareness, instill values and develop the personality and leadership quality.

### Activities during 2012-2013

- ✚ POSTER COMPETITION with the theme “Save Girl Child” on 4th May,2012 and on the very same day an invited talk was also organized and for that Prof. Anamika Chakraborty Bagula Sri Krishna College who presented her views on “ The ‘Other Voice –Women Empowerment”.
- ✚ Seminar on **“Security of Working Women at Workplace” at B.C.Roy Auditorium of JIS College of Engineering on 01.10.2012.**
  - Dr. Malabika Roy, Associate Professor, Burdwan University & Dr. Sudhansu Tunga , Retd. Professor & Head, Guwahati University was invited as the the chief speaker.
- ✚ 1<sup>st</sup> Issue, 1<sup>st</sup> Volume of our “News Letter” on 01.10.2012 published.

### ➤ Induction Programme for the Students:

The College has designed and developed the concept of **Induction Programme** for the First Year Students of all faculties of Bachelor of Technology and conduct during the first week after commencement of regular Academic Calendar. The induction programme was conducted between 1 to 8 August 2013 by a panel eminent Academicians from reputed Institutions, Senior Experts from the Industry and noted speakers on Career Guidance and Motivation. The joint session was attended by all the students and an all round exposure was given on the subjects, future prospect of the subject and significance and research potentials. Along with career guidelines, industry trends and requirements and employment scenario. One day Workshop and Presentation was conducted by an expert of International repute Mr Mrinal Chakraborty on Motivation and Character Development for all the students.

Glimpse of the Topics:

Topic	Name of the Speaker	Affiliations
Modern Industry Trends and Technological Research Frontiers	Mr Sourav Dutta	IBM Kolkata
Building Technical Aptitude	Mr Partha Choudhury	Foster Wheels
The Right Approach towards Engineering Studies	Prof. N Som	Former Dean JU and Geotechnical Expert
Motivation and Character Building	Swami Subirananda Maharaj ji	Belur Math Kolkata
Industry Trends and Requirement Standards	Mr. Partha Saha	Industry (IBM)
Technical Aptitude : A mathematical Approach	Mr. Tapas Mukherjee	Industry Expert

## ➤ Career Guidance And Placement Cell

The College has developed a well equipped and well manned **CAREER GUIDANCE AND PLACEMENT CELL** for the last 13 years to plan and provide career guidance and employment generation. The Cell runs on the vision of *Transforming Student into Successful Professional* has an impeccable track record of placing students over the years and has developed sound relationship with all major IT and core industries both at the local level and the national level. Around 81 companies are conducting Campus Recruitment Drives and the College has attained 74.3% employment during the last year.

The Cell is managed by Training & Placement Officers and Operations Executives. The Cell keeps the entire students profile database, CVs and conducts development programmes, training, workshops and seminars on Employability, Interview Techniques, Group Discussion, Telephonic Etiquette, Personality Development and Soft Skills, Job opportunities abroad and on Higher Education.

Twelve seminars and 88 recruitment drives were conducted during the current academic year. The Cell regularly conducts preparatory training courses on GATE, JECA, MAT, CET examinations. Seminar, Guest Lectures and different programmes are conducted and the cell participates jointly with CII, BCCI and NIPM etc.

## ➤ Entrepreneurship Development Cell

Entrepreneurship Development has been a key focus of the College and guidance and assistance is provided to the students as well as to the local enthusiasts in this regards. The college in collaboration with NSIC conducted Entrepreneurship Development Programme and the College has been selected to have an Incubation Center jointly with NSIC. The Coordinator of the cell is Ms Sila Singh Ghosh, GM Corporate Development, JIS Group and the cell collaborates with Ministry of Small and Medium Enterprises, CII, BCCI, local industry houses. JIS Group provide financial assistance to the willing students to start own ventures.

Ms. Sila S Ghosh, GM– Corporate Relations, JIS Group has been invited to represent India at the International Workshop on “Employers' Organizations and Women Entrepreneurs: How to reach out?” at Bangkok, Thailand, 14-19 October 2012.

## ➤ Alumni Association

JISCE has an effective Alumni Association which is a registered body under the Certification of Registration of Societies, WB XXVI of 1961. Dr S S Gupta is the President of the Association and the association meets once every month and keeps track of Alumni all across the country and organize annual meeting in a grand scale.

### i) Value education

Value Education Classes were conducted periodically by internal and guest faculties. Discussion papers were prepared and distributed in advance to the faculty members. An essay competition was conducted towards the end of value education classes and the topper was awarded prizes.

## 2. New Academic Programmes initiated

Many departments continued the practice of providing computer training to the students. The Center for Management Studies also provides **Entrepreneurship Development** training to the

students. In addition, wide range programme options are given for the all round development of students. Short term courses are conducted without interrupting the timing of the regular classes.

1. M.Tech in Mechanical Engineering started August, 2012
2. Initiated M. Tech program in Nanoscience & Technology in association with Department of Chemistry and Nanoscience & Technology is a new Department in the Institute operative from the session 2012-13.
3. Career guidance classes, orientation programmes and interdisciplinary seminar sessions are arranged.
4. Remedial coaching classes are provided to slow learners.
5. Foundation course in Tally, Personality Development, and Computer Awareness Course.
6. Coaching classes for competitive exams and for entry in service for advanced learners.
7. Special coaching is given to PG students for UGC/CSIR test.
8. Coaching is given for GATE, JECA, CET, MAT examinations.
9. Mathematical Aptitude Development Programme is conducted in collaboration with 'Target Education Consultants'.

Coaching programmes are open to all the Under Graduate and Postgraduate students of the college. Under the programme training is given students as per syllabus and necessity. Coaching for paper is provided at the college level. It began with orientation classes followed by classes by experts for different modules of Papers. These classes were conducted during the regular teaching days as per schedule and batches, Saturdays and other holidays. Coaching classes are provided both at the central and level under the initiative of department level faculty co-coordinators.

### **3. Innovations in curriculum design and transactions**

Under autonomous framework, every department/Stream/Subjects related to the Undergraduate and postgraduate courses of the Institute have its own Board of Studies (BOS) with Head of the Concerned Department as the Chairman and all whole-time teachers of the Department as members. Two external experts nominated by the Academic Council, one representative from industry/corporate sector and one University nominee are also the members of the BOS. Regular meeting of the BOS is held and after getting autonomous status initiatives have been taken to restructure and redesign the curriculum of the respective UG and PG courses. Accordingly, intradepartmental, interdepartmental meeting (in specific cases) has been organized to clarify objective and outcome of the respective courses, followed by meeting of BOS and Academic council. New course curriculum has been prepared keeping into account the existing curriculum of the reputed Institute, outcome of the course concerned and learners need about the course. A learner centric approach has been introduced in the revised curriculum. Consequently the syllabus of each subject has been prepared. This revised curriculum has become operative from the session 2013-14 1st year students.

#### **Academic Review and Performance Evaluation**

Internal academic audit for the current academic year was conducted in ..... 2013 by the IQAC. An IQAC subcommittee was constituted for the same. The IQAC subcommittee visited all the departments, verified all the documents, interacted with the all faculty members and submitted a draft report to the principal.

#### 4. Examination reforms implemented

Under autonomous framework, the Institute has separate Board of examinations for UG and PG courses. Each board of examination has been constituted following the regulations of the Institute (Reg. 4 (B.E.) & Reg. 4 (B.E.)) with the Controller of examination as the ex-officio Secretary. Regular meeting of either board of examinations is held and decisions are transmitted to the academic council for final approval. Noteworthy, modifications has been introduced in the examination systems under autonomous framework and there are specified rules for examination [Rule 1. (Examiners) to Rule 1. (Examiners)]. According to these rules, each paper under UG courses would be set, examined 50% (of written examinations) by internal examiner and 50% (of written examinations) by external examiner. Name of the examiners are recommended by respective BOS to the Board of examinations for final approval. For PG courses 50% of total number of papers are set, evaluated externally. Apart from these, reforms in written examinations, continuous evaluation system has been introduced with relevant marks reflected with internal marks (30% of total marks). Each faculty member maintains one continuous evaluation diary where results of surprise test, quiz, and question answer sessions are preserved. Innovative method of testing students' performance such as quizzing, group discussions are encouraged for evaluation of students' internal performance. In practical classes also continuous performance evaluation is included as a part of evaluation system.

#### 6. Number of candidates qualified Competitive Examinations

Number of candidates qualified for NET/ SET – 4

Number of students qualified for GATE- 26

#### 7. Initiatives towards Faculty Development Programme

The College takes consistent efforts in up-gradation of knowledge base, enhancement of skills and all round development of faculty and staff round the year.

Faculties sent for Participation in Conference / Seminars through TEQIP Assistance

Name Of The Teacher	Dept.	Date	Title Of The Event
Sainik Kumar Mahata	CSE	22 to 23/11/12	International Seminar on Computing Communication and Sensor Network
Monalisa Dey	CSE	22 to 23/11/12	International Seminar on Computing Communication and Sensor Network
Subham Ghosh	ECE	19 to 23/11/12	Training on Fiber Optics
Nilotpal Halder	ECE	19 to 23/11/12	Training on Fiber Optics
Gargi Das	HU	23 to 20/12/12	Participation in orientation Program(OP)
Dr. Sandip Bag	BME	27/05/2013	Development of Bone Paste from Waste Egg-Shell for Bone Grafting
Reetam Mondal	EE	24 to 28/06/13	Short Term Training Course on Programming with PLC
Soumen Ghosh	EIE	24 to 28/06/13	Programming with PLC



Dipak Shaw	ME	20/04/13	Welding Workshop
Anujata Bhattacharya	HU	19 to 21/02/13	Deep Dive Faculty Enablement Programme on Business English
Soumen Ghosh	EIE	14 to 18/01/13	MATLAB Applications in Electrical Engineering
Nabanita Dasgupta	EIE	14 to 18/01/13	MATLAB Applications in Electrical Engineering
Madhura Chakraborty	EIE	14 to 18/01/13	MATLAB Applications in Electrical Engineering
Reetam Mondal	EE	04 to 06/01/13	Short Term Course on Power Electronics Application in Industry
Sumit Das	IT	15 to 19/07/13	Continuing Education Program on Machine Intelligence at HIT Kolkata.
Satrugghna Singha	CSE	26 to 27/09/13	Microsoft Ed-vantage Faculty summit Hyderabad, 2013
Tanmay Bhattacharya	IT	26 to 27/09/13	Microsoft Ed-vantage Faculty summit Hyderabad, 2013
Subhranil Som	CA	15 to 19/7/13	Machine Intelligence at Heritage Institute of Technology
Supriyo Chakraborty	CA	15 to 19/7/13	Machine Intelligence at Heritage Institute of Technology

- Physics Department organized as a part of seminars/conferences where invited lectures were arranged involving experts from reputed Institutions viz. IIT Kharagpur; NISER, Bhubaneswer; IISER, Kolkata, Jadavpur University, University of Kolkata, University of Kalyani, CGCRI, Kolkata, CSIR, Delhi.

Apart from this JISCE in collaboration with WIPRO Technologies organized

<b>WIPRO Mission 10X Workshop and Dale Carnegie Certification</b>	<b>6-10<sup>th</sup> Feb.,2012</b>
<b>WIPRO Mission 10X Advanced Workshop</b>	<b>4-5<sup>th</sup> April, 2012</b>

## 8. Initiatives towards Staff Faculty Development:

Name of the teacher	Dept.	Date	Title of the event
Sampa Mahato	EIE	04 to 14/06/13	ISTE Workshop on Analog Electronics
Soma Banerjee	EIE	04 to 14/06/13	ISTE Workshop on Analog Electronics
Sumindar Roy	EIE	04 to 14/06/13	ISTE Workshop on Analog Electronics
Munmun Pramanik	EIE	04 to 14/06/13	ISTE Workshop on Analog Electronics
Sanjib Garai	ME	20/04/13	Welding Workshop
Sahid Hussien Mandal	ME	20/04/13	Welding Workshop
Biplab Bakchi	ME	20/04/13	Welding Workshop

**25<sup>th</sup> June 2013 British Council trained 32 Staff Members on Positive Personal Impact and on 1<sup>st</sup> July 2013 British Council trained 19 Staffs on Effective Management Skills.**

Faculties sent for Participation in Conference / Seminars through TEQIP Assistance

College periodically conducts Training of administrative staff in the use of modern office equipment, software, office automation, maintenance of records, procedures etc.

## 9. Total number of seminars/workshops conducted

Name of the event	Organized by	Date
Design and construction of tall structured & buildings	Civil Engineering	8/5/2013
Role of power electronics and dives in modern technology	Electrical Engineering	10/5/2013
Instrumentation in power projects	Electronics & Instrumentation dept	14/03/2013
Process Instrumentation	Electronics & Instrumentation dept	3/5/2013
National workshop on simulation approach towards signal & system	Electronics & communication dept	13/02/2013
Seminar on recent development of robotics , Nano-science and technology	Mathematics department	12/4/2013
Workshop on AVR ATMEGA microcontroller	Electronics & communication dept	20&21 March 2013
Instrumentation in power plant	Electronics & Instrumentation dept	15/03/2013
Workshop on practical training on PLC , SCADA for students of 3rd & 4th year of EIE & EE	Electronics & Instrumentation dept	6th april - 11th april 2013
A two day workshop on " Meet the industry - development , technologies & techniques"	CSE department	12th & 13th FEB 2013
AVR training for 10 faculties	Electronics & Instrumentation dept	1/2/2013
IC3A 2013	CSE department	11th -12th JAN 2013
Academic workshop under TEQIP	Academic activity committee	May 2013
Role of HODs and Good Governance	Nodal Committee of training & research under TEQIP 1.2	07.06.2013
Micro strip antenna research : current trends	Electronics & communication dept	14/08/2013
Advancement in bio-materials & bio mechanics	Bio medical Engineering	12/7/2013

Application of Engineering in Medical Science	Bio medical Engineering	21/07/2013
One day seminar on Nanotechnology: lithography, sensors and nanotubes	Nanoscience & Technology, Department of Chemistry, Department of Physics	19/07/2013
Recent Advances in Manufacturing Technology	Dept. of Mechanical Engineering	06/08/2013
Micro Manufacturing, Advance Manufacturing & Rapid Prototyping	Dept. of Mechanical Engineering	10/08/2013
Project Management	Dept. of Mechanical Engineering	17/08/2013
Production Planning, Scheduling & Inventory Control (NSPPSIC-2013)	Dept. of Mechanical Engineering	29/08/2013
Power System Monitoring Control & Stability PSMCS 2013	Electrical Engineering Department	16/09/2013
Recent Trends in Information Technology	Department of Information Technology	19/09/2013
National Seminar on Recent Advancement in concrete technology and related instrumentation technique	Electronics & Instrumentation dept	08/10/2013
Robotics & Mechatronics	Electrical Engineering Dept.	To be organized on 26/10/2013
Advancement in sensor science and technology	Electronics & Instrumentation dept	To be organized on 12/11/2013

## 10. Research projects (On Going)

Type of Sponsorship	Name of the Project/ Seminar	Amount	Funding Agency	Sponsored to	Letter No.
<b>R &amp; D Grant</b>	"Developing a low cost microcontroller based wireless data acquisition system to monitor civil structures"	Rs. 50,000/-	IEI	Dept. of ECE(Mr. Anirban Patra)	Dt. 06.06.2012
<b>Research Project under CSIR</b>	"In Silico Design of Novel Molecular Spintronic Devices through nonequilibrium Green's function technique"	Rs. 13,22,000	CSIR	Dept. of Physics(Dr. Sabyasachi Sen)	03(1256)/12/EMR-II dt. 6.11.12
<b>Project under RPS Scheme</b>	" Produce the Knowledge Based Database of EMG Signal to Enrich the Interpretation Technique for Difference Human Arm Movement"	Rs. 11,33,334/-	AICTE	Dept. of ECE(Dr. Biswarup Neogi)	20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2013
<b>Project under RPS Scheme</b>	"Solar Photo Voltaic Hybridisation with usual grid to compensate peak load demand at JISCE"	Rs. 8,00,000/-	AICTE	Dept. of EE(Rakesh Naskar)	20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014
<b>Project under RPS Scheme</b>	Design and Development of a Cardiac Parameter Monitoring System Using Common Mobile	Rs. 10,55,000/-	AICTE	Dept. of BME (Dr.	20/AICTE/RIFD/RPS(Policy-1)32/2013-14

	Phones for Affordable Patient Care			Meghamala Dutta)	
<b>Project under RPS Scheme</b>	"Natural Language Processor Incorporating Auto-Debugger Under The Framework of machine Intelligence"	Rs. 260334/-	AICTE	Dept. of IT (Dr. Somsubhra Gupta	20/AICTE/RIFD/RPS(Policy-1)33/2013-14 dt. July, 8 2013
<b>Project Under MODROB</b>	Bio Signal Processing Lab	Rs. 8,90,000/-	AICTE	Dept. of CSE (Pranati Rakshit)	12/AICTE/RIFD/MOD(Policy-4)Pvt-52/2012-13 dt. 11.07.2013

### 11. Patents generated if any:

Name	Department	Number of Patents	Details
Mr Soham Sengupta	Information Technology	1 patents applied	TelEclipse: An IEEE 802.11/15 approach to increase productivity of Software developers on Eclipse RCP
Dr S S Gupta	Computer Science & Engineering	3 patents applied (Indian, USA, International Forum)	A. Artificial Music Doctor B. Sharp Compiler C. Smart Compiler

### 12. Total Research Grant Received From Various Agencies:

Type of Sponsorship	Name of the Project/ Seminar	Amount	Funding Agency	Sponsored to	Letter No.
R & D Grant	"Developing a low cost microcontroller based wireless data acquisition system to monitor civil structures"	Rs. 50,000/-	IEI	Dept. of ECE(Mr. Anirban Patra)	Dt. 06.06.2012
Research Project under CSIR	"In Silico Design of Novel Molecular Spintronic Devices through nonequilibrium Green's function technique"	Rs. 13,22,000	CSIR	Dept. of Physics(Dr. Sabyasachi Sen)	03(1256)/12/EM R-II dt. 6.11.12
Project under RPS Scheme	" Produce the Knowledge Based Database of EMG Signal to Enrich the Interpretation Technique for Difference Human Arm Movement"	Rs. 11,33,334/-	AICTE	Dept. of ECE(Dr. Biswarup Neogi)	20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2013
Project under RPS Scheme	"Solar Photo Voltaic Hybridisation with usual grid to compensate peak load demand at JISCE"	Rs. 8,00,000/-	AICTE	Dept. of EE(Rakesh Naskar)	20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014
Project under RPS Scheme	Design and Development of a Cardiac Parameter Monitoring System Using Common Mobile Phones for Affordable Patient Care	Rs. 10,55,000/-	AICTE	Dept. of BME(Dr. Meghamala Dutta)	20/AICTE/RIFD/RPS(Policy-1)32/2013-14

Project under RPS Scheme	"Natural Language Processor Incorporating Auto-Debugger Under The Framework of machine Intelligence"	Rs. 260334/-	AICTE	Dept. of IT(Dr. Somsubhra Gupta	20/AICTE/RIFD /RPS (Policy-1)33/2013-14 dt. July, 8 2013
Project Under MODROB	Bio Signal Processing Lab	Rs. 8.90,000/-	AICTE	CSE(Pranati Rakshit)	12/AICTE/RIFD /MOD (Policy-4)Pvt-52/2012-13 dt. 11.07.2013
Developing a low cost microcontroller based wireless das to monitor civil structure		Rs. 0.5 Lakh	IEI, INDIA	Mr. Anirban Patra	
Produce the knowledge Based database of EMG Signal to enrich the interpretation technique for different Human arm movement		Rs. 11.3 Lakh 3 years(2013-2016)	AICTE	Dr. Biswarup Neogi	

### 13. Number of Research Scholars:

The College under WBUT format cannot under take Ph. D scholars and under recently received Autonomy status college faculties has got approval from WBUT to conduct Ph. D programme and they will shortly take scholars under them.

### 15. Honours and Awards to the Faculty

- Dr. Sabyasachi Sen was awarded Sir Acharya Prafulla Chandra Roy Award, 2007-08 from University of Calcutta for research activities.
- Mr. Rajdeep Chowdhury is Awarded Gold Certificate in Infosys
- Dipankar Ghosh **of Mathematics Department** has been awarded Double M.Sc in Mathematics under University of Burdwan (DDE) in August 2012.
- Campus Connect INSPIRE – Faculty Excellence Awards 2013 Grand Final
- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani was declared Winner in Infosys Campus Connect “INSPIRE – Faculty Excellence Awards 2013” Grand Final, held on 25th July, 2013, organized by Infosys, at Infosys Bhubaneswar DC.
- Mr. Chowdhury was awarded with Gold Certificate, Event Trophies and Event Certificate of Appreciation in Infosys Campus Connect “INSPIRE – Faculty Excellence Awards 2013” Grand Final.
- Before participating in the Grand Final, Mr. Chowdhury had already been declared Winner in the College Level, as well as the Regional Level, for which he was given Certificate of Merit respectively.
- Mr. Rajdeep Chowdhury, Mr. Amitava Ghosh and Mr. Harsh Vardhan Mandhyan win 2nd Prize in 4th All India Inter Engineering College Academic Meet 2013

- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, Mr. Amitava Ghosh, Student, Department of Computer Application and Mr. Harsh Vardhan Mandhyan, Student, Department of Computer Application were awarded 2nd Prize for their Paper titled “Geo-Encryption Technique for Exchanging Positional Parameters in Shuffled Order Through QR Coded Image” in the Computer Science and Engineering and Information Technology [C&I] Category of 4th All India Inter Engineering College Academic Meet 2013, held on 22nd and 23rd March, 2013, organized by Forum of Scientists, Engineers and Technologists, Kolkata in association with Modern Institute of Engineering and Technology, Bandel. Amongst the awarded prizes, other than Certificate of Appreciation and Memento, there was Cash Prize worth of Rs. 2000 /-.
- Mr. Chowdhury was awarded with Certificate of Recognition and Memento by Mr. Bhupesh Deka, Principal, Education Research, Infosys Limited and Mr. Taranjit Singh, Managing Director, JIS Group at the Valedictory Session of Train The Trainer Workshop on Web Applications Development Using J2EE Framework on 9th November, 2012 at Dr. B. C. Roy Auditorium, JIS College of Engineering, Kalyani.
- Mr. Rajdeep Chowdhury becomes Top Practitioner in WIPRO Mission 10X and archives in Mission 10X BookRack
- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani becomes “Top Practitioner of the Week” on 4th June, 2012, all across India, and thereby coined “BookRack Practitioner.”
- Mr. Chowdhury’s Activity in Teaching and Learning Methodology was recognized by WIPRO Mission 10X Team and got his document archived in Mission 10X BookRack.
- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani explained about Linked Lists by narrating an Analogy.
- Mr. Rajdeep Chowdhury wins in Infosys Campus Connect Faculty Contest Series – INSPIRE 2012 Grand Final
- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani was declared Winner in Infosys Campus Connect Faculty Contest Series – “INSPIRE 2012” Grand Final, held on 12th April, 2012, organized by Infosys Limited, at Infosys Bhubaneswar DC.
- Before participating in the Grand Final, Mr. Chowdhury had already been declared Winner in the College Level, as well as the Regional Level, for which he was given Certificate of Merit respectively.
- Mr. Rajdeep Chowdhury and Mr. Saikat Ghosh win 1st Prize in 3rd All India Inter Engineering College Academic Meet 2012
- Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application and Mr. Saikat Ghosh, Student, Department of Computer Application were awarded 1st Prize for their Paper titled “Study of Software Based Data Hiding [SBDH] Using Trigonometry Based Key [TBK] Generation” in the Computer Science and Engineering and Information Technology [C&I] Category of 3rd All India Inter Engineering College Academic Meet 2012, held on 30th and 31st March, 2012,

organized by Forum of Scientists, Engineers and Technologists, Kolkata in association with Calcutta Institute of Engineering and Management, Kolkata. Amongst the awarded prizes, other than Certificate of Merit, there was Cash Prize worth of Rs. 3000 /-.

- Mr. Nilanjan Dey has been nominated as “2000 Outstanding Intellectuals of the 21st Century ~2013” by International Biographical Centre, Cambridge, England, 2013.
- Mr Nilotpla Halder is selected as workshop coordinator for the Two Week ISTE Main Workshop on Signals and Systems, National Mission on Education through ICT (MHRD, Govt. of India) (to be conducted by IIT, Kgp)
- Dr. Somsubhra Gupta has been nominated as a TEQIP Coordinator in JISCE in 2013
- Mr. Tanmay Bhattacharya has been nominated as a Microsoft Program Coordinator in 2013.
- Mr. Soham Sengupta has been nominated as an AKASH Project Coordinator of JISCE under National Mission on Education under ICT (NMEICT) scheme in 2013 and JIS College of Engineering has received 150 AKASH Tablet from IIT-Bombay under NMEICT scheme in 2013.
- IIT-Bombay Remote Center has been established at JIS College of Engineering under National Mission on Education under ICT (NMEICT) scheme in 2013, (Remote Center ID-1335) and Mr. Soumyabrata Saha has been nominated as an IIT-Bombay Remote Center Coordinator of JISCE under NMEICT in 2013.
- Prof. Suparna Pal (Best Paper Award at National Conference on Control, Communication & Device Electronics, N3CD-2013)
- Prof. Papun Biswas (Best Paper Award in the Category of Electrical & Electronics in International Conference on Advance Computing and Communication (ICACC-2013), March 2013, Ranchi, Jharkhand, India)

### **Invited Talks /Chairs**

- Somsubhra Gupta delivered invited talk in two successive sessions 2010 and 2011 at Domkal Engineering College Seminar “Tech Science Trend today”.
- Somsubhra Gupta assigned Session Chair for Designing System in the Conference on Information Science, Technology and Management (CISTM) 2007 organized JOINTLY by the Virginia Commonwealth University, USA AND Confederation of Indian Industry (CII) at Osmania University Hyderabad, INDIA.
- Dharmpal Singh is the member of reviewer board of International Journal of Artificial Intelligence and Knowledge Discovery.

## **16. Internal Resources generated**

IT has received 150 AKASH Tablet from IIT-Bombay under NMEICT scheme in 2013.

## **17. Details of Departments getting SAP, COSIST/DST, FIST etc. assistance/ recognition**

Received DST FAST Track project in 2012.

## 18. Community Services/ Extension Activities

Community oriented programmes of the college implemented through the activities of various clubs and forums and academic departments. All the students under Autonomous Status are active members of NSS and NCC. Students and faculty members contributed generously for the needy students and their family members. It is mandatory for all students starting from 2013 to opt for either NCC or NSS.

### National Cadet Core (NCC)

JIS College of Engineering has been selected as the only engineering college in West Bengal to impart NCC as an Elective Subject. Total intake capacity approved is 129 and approved 43 students' have already enrolled for the programme. The NCC Elective programme is of one Credit Point and will be added to the aggregate score and will continue for three years. The programme will be conducted by 49 Bengal Battalion and the course will lead to C Certification of NCC. The programme is rolled out by Lt. Colonel L Mathur.

### National Service Scheme (NSS)

The college has an active NSS Camp under the guidance of the Dr Subhamoy Singha Roy. Sizeable number of students participates in various programmes conducted under the scheme. The activities NSS volunteers have conducted are Plantation of Trees towards a Green Campus Programme, Cleaning and Developing the Campus into an Eco-friendly Campus, Blood Donation Camp, Developing Local Area Campaign and conducted classes on morality and personality development.

#### Awareness Programme

Awareness Programme conducted on Dengue, Malaria and Enteric Diseases at the area in vicinity during 12 March 2013.

#### Orphanage Home Visit held on October 2013-

The college has donated new clothes to the homes nearby areas.

#### Blood Group Identification Camp

The blood group identification camp for the college students was organized on 13th, 14th March 2013.

#### Anti-Drug Campaign

- The NSS wing organized a camp on **ANTI-DRUG** from 4th to 8th February 2013. The camp was inaugurated by Dr A Guha, Director of the College. Different social organizations from various parts of the locality all came together on a common platform for interactive learning and exposure
- Bank loan Assistance Counseling and support Cell helps students in getting financial help and interact daily with the students during second half of the day.
- NSS conducted Adult and Child education in 5 villages skirting the city.

**19. Number of teachers newly recruited : 28**

**20. Teaching-non teaching staff ratio : 2.75:1**



## 21. Improvement in Library Services

- Commissioned a Digital Library with separate space allocation. The Digital Library System runs on D Space software which is an integrated system of 25 terminals connected together through an independent LAN with a connectivity of 50 MBPS.
- 1500 titles have been uploaded which include various Books, VIDEO Lectures, around 450 E Books, University Questions Papers, Research Publications, NPTEL VIDEOS etc.
- Creation of a new block for Book Bank Facility
- Book bank Provide 5 books to the students for 6 months per semester.
- Creation of a new block as study center for IEEE E-Journals.
- 10,000 new books have been added under 1500 Titles.

## 22. Number of new books / journal subscribed and their value

10,000 new books were purchased during 2012-13 and the cost was Rupees 2,090,726.00/-. The number of journals subscribed during 2012-13 were 108 print journal and 189 IEEE E-Journals and the cost for the same was Rupees 12, 58653.00/-.

## 23. Students Feedback System Is Introduced And The Action Taken On Students Feedback.

Student assessment of teachers is being continued for UG and PG courses based on a well-defined evaluation proforma through online System already installed. Feedback taken through the portal twice a year during January and June. The Feed Back score is linked to the Annual Performance Appraisal System in practice. The score is shared to the respective HODs and Department level meetings are conducted for evaluation and improvement. In the evaluation session the evaluation score of the teachers are distributed among the teachers concerned for self-analysis with suggestion for improvement wherever necessary.

## 24. Unit cost of education

[Unit Cost = Total Annual Recurring Expenditure (Actual) divided by Total Number of Students Enrolled]

Unit Cost of Education = Administrative Expenditure + Staff Expenditure

= Rs. 81655234.00 + Rs. 81599037.00 = Rs. 163254271

Total Number of Students= 3279

Unit Cost = Rs. 49787.82 per student per year

Unit Cost = Rs. 136.40 per student per day

## 25. Computerization of administration and the process of Admissions and Examination results and issue of certificates

The entire administrative system runs on an Integrated ERP System controlled centrally. The staff attendance, leave accounts and applications are recorded through ERP. The accounts and pay roll operations are totally runs through the ERP. Purchase, store are an integral part of the ERP. All sections of the office are fully computerized

## Admission Process.

The entire admission process is online governed through JEE Board Portal. The students' given choice, go for counseling and take admission. The entire admission process is conducted through existing ERP System Employing software conducted centrally. The students' fees management is also operated through the ERP.

## 26. Increase in the infrastructural facilities

- The utility block accommodates NSS and NCC offices, store, PNB ATM, Gymnasium. The seminar Halls of the new library building was renovated by providing better ceilings. The Audio Visual Hall of the college was renovated by providing better ceiling and Air Conditioner facilities and smart class room has been set up and used as a common facility.
- Advance manufacturing lab including CNC machine, EDM, Robotics lab under process.
- CSE has under took modernization plan for M. Tech. (SE) Project Lab (new setup) under proposed TEQIP Phase II Subcomponent 1.2 with a configuration of 20 in nos Dell Inspiron 503S Desktop; LCD Projector; 10KVA online UPS; Dell Power Edge Server; HP DTN printer; HP scan jet, Interior and with an Estimated cost of Rs. 10,50,000/(in INR).
- Well equipped Laboratory facilities have been generated. Soil Mechanics, Concrete Technology, Geology and Survey Engineering laboratory have already created as per syllabus and procurement of latest technology. Facility of drawing hall has already been made. Development of Highway Laboratory and CAD Laboratory is under process.
- ECE Department has developed Student Interaction System through the weblink

## 27. Technology Up-gradation

- All the departments are using computers for documentation and presentation of data. OHP, Slide Projector and 10 LCD/DLP Projectors are being used as teaching aids as and when required.
- Internet connectivity has been upgraded with a speed of up to 50 MBPS Lease line from Rail Tel
- Conduction of certain lectures over a Virtual Classroom Cloud which is an in-house product
- Conduction of attendance process of certain lectures via QR codes
- (In progress) Cheaper Access Control mechanism inside the laboratory (An in-house initiative)
- Automation of the department via Clouds and Android smart phones and tablets.
- Procurement of (i) LABVIEW (ii) PSCAD (iii) ETAP (iv) Ansys (v) Eurostag (vi) PLC & SCADA Software for R & D Activities of the EE Department

## 28. Computer and Internet access and training to teachers and students.

- The entire campus is Wi-Fi enabled with high speed connectivity for all students and staffs.

- Broadband Internet facility through Broad Band with a speed of 50 MBPS connection is made available for both teachers and students. In the campus, there are 11 computer labs with 800 computers. The computer labs in the main block mostly concentrate on regular curriculum activities and project work. The teachers and students of the college have accessibility to the computer lab and Internet facility. 74 computer terminals are provided with broad band internet facility.
- Various online training and tests like “Spoken Tutorial Project from IIT- Bombay on MySQL and C++” are conducted regularly for students and teachers.
- CAD/CAM lab is fully supported to access computer & internet for students & faculties.

## **29. Financial aid to Students**

- Selected students from financially weak background are provided free studentship. In the academic year 12-13, two students’ have been provided full free ship and six students have been provided half free ship.
- A sizeable number of students avail Tuition Fees Waiver Scheme of the University and Minority Scholarships.

## **30. Activities and support from the Alumni Association**

The college has an impeccable track record of student employment over the years. A sizeable number of students are working all across India across industry verticals in good positions. The college as well as the alumni get in touch intensely and periodically visit the campus. The association also organizes a meet every year.

The alumni deliver lectures and conduct interactive sessions with the students such as on the domain expertise, industry trends etc. the alumni also help students in getting projects, internships etc.

## **31. Activities and Support from the Parent-Teacher Association**

The college gratefully recounts the encouragement and support from the parents and fosters a very healthy relation with parents. The mentors interact with the parents on a regular interval and share the growth and performance of the students. The parent- teacher meets at least once every semester and share views.

A sizeable number of parents hold very high ranks in the industry, academics and government sectors. They provide their expertise and help students in getting projects, internships and time to time deliver lectures and interactive sessions.

## **32. Health Services**

A dedicated Medical Facility is available in a separate block with college Doctor and assistants and other essential medical facilities. Medical inspection is conducted for all students. Classes are given on hygiene and cleanliness. Blood group identification was conducted with the involvement of Blood Donation Club.

## **33. Performance in Sports Activities**

- a) The College the Annual Sports for both students and staff with 18 Athletics events conducted.
- b) The college conducts annual sports competitions on Football, Cricket, Carom and

- Chess for the students.
- c) The college was champion for two consecutive years at the SJS Trophy Cricket Tournament played among the staff members of the group colleges with 14 teams participating from different parts of the state.
  - d) A Doubles Carrom Tournamnet was organized in between 9<sup>th</sup> September to 13<sup>th</sup> September. A huge number of students(258 number of Boys & 14 of number girls) participated in this tournament from different stream. JYOTIRMOY DEY BISWAS(CSE 4<sup>th</sup> year) and ARKO GOSWAMI(IT 3<sup>rd</sup> year) stood champion from boys and ARKADEEP MONDAL(ME 3<sup>RD</sup> YEAR) and Sk.RAMIZUDDIN(ME 3<sup>rd</sup> year) finished as runners-up. SWARNIKA KUMARI(EIE 3<sup>rd</sup> year) & SHIKHA SHARMA(EIE 3<sup>rd</sup> year) won the 1<sup>st</sup> place from girls and PRAGNA PARAMITA PAUL(ECE 3<sup>rd</sup> Year) MAYURI(ECE 3<sup>rd</sup> Year) hold the runner-up position.
  - e) The 6<sup>th</sup> annual sports meet 2013 of JISCE was held on 2<sup>nd</sup> March 2013 in our college Ground. Which was inaugurated by Mr. U. S. Mukherjee, Deputy Director JIS group and Prof. U. Bandhyapadhyay, Principal JISCE and 270 people participated.

### 34. Incentives to outstanding sports persons

The outstanding sports persons are given financial assistance. We give help and proper guidance to the top class players to find out placement. We arrange felicitators meeting in the college auditorium to honour them when they come with laurels. Endowment cash awards are given to the top performers.

### 35. Student achievements and awards.

- Student Cricket Team of JIS College of Engineering, Kalyani were awarded as Runner's up with Cash Prize worth Rs. 10,000 /- at the Inter College Cricket Tournament "Heritage Champions Trophy 2013", organized by Heritage Institute of Technology, Kolkata from 12th April, 2013 to 17th April, 2013.
- Ms. Anwasha Palit, Ms. Kankonika Das, Mr. Pritam Das and Mr. Subhankar Dey, 2nd year students from Department of Electronics & Communication Engineering, JIS College of Engineering, Kalyani were awarded as Runner's up at the Inter College Technical Quiz Contest "QTRONIQS", organized by Department of Electronics & Communication Engineering, Narula Institute of Technology, Agarpara on 3rd April, 2013.
- Mr. Amitava Ghosh and Mr. Harsh Vardhan Mandhyan, 3rd year students from Department of Computer Application, JIS College of Engineering, Kalyani and Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani were awarded with 2nd Position, 'Certificate of Appreciation', 'Memento' and Cash Prize worth Rs. 2,000 /- at the "4th Inter Engineering College Academic Meet 2013", organized by Forum of Scientists, Engineers and Technologists (FOSET), Kolkata in association with Modern Institute of Engineering and Technology, Bandel, on 22nd March, 2013 and 23rd March, 2013. [Note:- The contributory Paper was conferred with '2nd Position' in 'Computer Science & Engineering and Information Technology (C&I)' category]
- Student Cricket Team of JIS College of Engineering, Kalyani were awarded as

Runner's up at the Inter College Cricket Tournament "Cricket Premier League 2013", organized by Jalpaiguri Engineering College, Jalpaiguri from 28th February, 2013 to 3rd March, 2013.

- Mr. Arkya Pratim Banerjee, Student, Department of Information Technology was awarded 1st Prize in the 'Model Competition' Category at the State Level of West Bengal State Student – Youth Science Fair 2012, held during 2nd to 4th August, 2012, at Birla Industrial and Technological Museum. In association with the winning trophy, Mr. Banerjee was also given a cash prize worth Rs. 15, 000 /-.
- Mr. Arkya Pratim Banerjee, Student, Department of Information Technology and Ms. Prithanjali Maiti, Student, Department of Information Technology were awarded 1st Prize in the 'Model Competition' Category at the District Level of West Bengal State Student – Youth Science Fair 2012, held during 23rd to 25th July, 2012, at Krishnanagar College. Both the participants were awarded gold medals
- Mr. Chanchal Rungta, Student, Department of Electronics and Instrumentation Engineering was awarded 1st Prize in the 'Poster Competition' Category at the District Level of West Bengal State Student – Youth Science Fair 2012, held during 23rd to 25th July, 2012, at Krishnanagar College. Mr. Rungta was awarded with a gold medal.
- Ms. Khushboo Rai, Student, Department of Computer Application, Ms. Sumana Dasgupta, Student, Department of Computer Application and Mr. Subhranil Som, Assistant Professor, Department of Computer Application were awarded 2nd Prize for their Paper titled "Food Innovations in Vegetable Crops" in the Bio-Technology, Food Technology and Agricultural Engineering [BFA] Category of 3rd All India Inter

### **36. Activities of the Guidance and Counseling Unit**

The Counseling Cell of the College works round the year in tandem with the Mentoring System Cell. Class teachers and tutors identify the students with problems. Teachers give them personal counseling. If they cannot solve the problem, they direct the students to professional counselors working in the college and also meet guardians on a regular basis. Also students approach them voluntarily.

The Cell offers counseling service on three working days from 10 am to 4 pm. (Monday-Wednesday- Fri Day)

The professional counselors are assisted by senior teachers. The Counseling Cell helps the students to help themselves to change their attitudes and to get a deeper knowledge of self awareness.

- a) Every day teaching and learning process
- b) Stay tuned to the modern trends in technology
- c) Dynamically mentoring a student's evaluation curve
- d) Sowing motivation for future
- e) Guidance and career goals
- f) Any confusion arising whatsoever
- g) Personal and social guidance
  - Being a constructive Hobbyist
  - Building a healthy physique and psych
  - Any confusion and trouble and stress arising from social, cultural and emotional sides

The basic objective of the cell is nurturing a social, responsible and honest citizen capable of meeting the challenge of Engineering and technology in industry.

### **37. Placement services provided to students**

The Career Guidance and Placement Cell conducts seminar in first and third Saturdays of every month. The seminars were on Interview Techniques, Group Discussion, telephonic interview, personality development, job opportunities abroad and on higher education. Twelve seminars and nine recruitments were conducted in this academic year.

### **38. Development programme for non-teaching staff**

In-house training on weekends on the following

- Maintenance and optimization of a computer laboratory
- Using Advanced tools in network monitoring, and configuration of the network, routers and firewalls
- How to back up and restore an apparently lost data
- Easy Recovery of a system
- Administration of database, network and clouds through different tools
- Ability to proxy a teacher's transitory absence during the laboratory session

### **39. Best Practices of the College.**

- ❖ Teacher evaluation by students
- ❖ Personalized attention to students through mentoring System
- ❖ Value Education
- ❖ Internal academic audit by the IQAC
- ❖ Feedback from various stakeholders
- ❖ Decentralizing administrative functions by constituting various committees
- ❖ Annual Exhibition
- ❖ Teacher's Diary
- ❖ ICT in teaching
- ❖ Continuous Evaluation
- ❖ Transparency
- ❖ ERP Controlled functioning
- ❖ Conduction of certain lectures over a Virtual Classroom Cloud which is an in-house product
- ❖ Conduction of attendance process of certain lectures via QR codes
- ❖ (In progress) Cheaper Access Control mechanism inside the laboratory (An in-house initiative)
- ❖ Automation of the department via Clouds and Android smart phones and tablets
- ❖ Biometric attendance system for teachers
- ❖ Go-green venture to avoid unnecessary wastage of papers
- ❖ Continuous evaluation process and appraisals of faculties and supportive staffs
- ❖ Dedicated BoS for each department
- ❖ NSS /NCC Programs included
- ❖ Various Academic and cultural clubs.
- ❖ Ragging Free campus
- ❖ Institutional Women Cell for empowering Women

#### **40. Linkage developed with National/ International Academic/ Research bodies**

- Collaboration with the faculty of the Indian Institute of Science.IIT Mumbai, Kharagpore and Chennai for research and development, Seminar, Lectures etc.
- MoUs have been signed with Microsoft, Oracle ,Wipro, Infosys, IBM
- Communications has been made with Prof. D.D. Sharma, Solid State and Structural Chemistry unit, IISC, Bangalore as an advisor for enhancement in Research and development in the field of Nanoscience.
- MOU has been signed with M/s Shanker Coils Pvt. Ltd.
- MOU in progress (a) M/s Neo Teletronix Pvt Ltd, 117, Mishra Para lane, Rajpur, Kol-7000149. Head Office: 6/7, Bijaygarh, Kol-32.
- M/s Hashi Electrical, Desopran Sashmal Road, Howrah.

#### **41. Any other relevant information the institution wishes to add**

All subject associations of the college organized **Welcome** for Newly Admitted Batches, **Farewell** for final years, Bengal Festivals and National Festivals are observed with due dignity and enthusiasm. They brought out manuscript magazines to give expression to their creative talents.

The college has a sprawling campus of 18 acres which is plastic free and eco friendly. A life guidance programme for the final year students was conducted this year too.

The college publishes a newsletter “**Voyage**” annually, incorporating all the activities of the college.

## PART C

### Plans of the Institution for the Forth Coming Year

➤ To install a biogas plant and solid gas crushing unit for the effective disposal of waste from the college canteen.
➤ To renovate the Electrical and water supply facilities of the college with iron removal plant and installing energy saving CFL lights.
➤ Improve infrastructure of all the departments.
➤ Re arranges the laboratory support systems and makes it more users friendly.
➤ Encourage teachers to take up Research Projects.
➤ To improve the class room facilities and creation of at least one smart class room per department.
➤ To organize seminar already sanctioned by UGC, TEQIP & AICTE.
➤ To organize conduct an International Conference on Electrical Engineering.
➤ Make internet knowledge compulsory to prepare the assignments and projects.
➤ Provide an orientation programme to the students to introduce the many programmes of the college.
➤ Avail the value education hours to introduce the many programmes.
➤ Conduct training programmes in Personality development and soft skills more intensively.
➤ Make the documentation of IQAC more effective with the help of software.
➤ To introduce software support for handling examination data.
➤ Add on more number of courses under NCVT.
➤ Continue the value addition programmes as part of the curriculum: Each department may start a diploma or certificate course as part of improving the curriculum content and issue certificates.
➤ Interdisciplinary programmes will be organized by way of invited talks, seminars etc. with the assistance of subject associations and various clubs functioning in the college.
➤ To organize a workshop for +2 students in the state to inspire them in technological subjects.



➤ Human Resource Development Training for students (HRD Training)
➤ Staff Training programmes will be organized periodically to train the staff in ICT based teaching
➤ Departmental meetings be arranged every month to review the progress of the academic plan for the current year
➤ All departments will introduce at least one worthy practice to be emulated by other departments and colleges, with a definite goal and evidence of success.
➤ To develop Digital Library in a fully fledged facility.
➤ To give a training course in website up-dations to one faculty member from each department. So that the department links in the college website may be kept current and operational.
➤ To covert the campus into an echo friendly campus.

Signature  
Chairman, IQAC  
JIS College of Engineering

Signature  
IQAC, Coordinator  
JIS College of Engineering

## ANNEXURE I

- ❖ Paper, Book publications of Faculty Members with Impact Factor and Citation Index

Name Of The Department: Electronics And Communication Engineering

Title	Authors	Detail of Paper	Nature of Paper	Level	ISBN No/ISSN No.	Impact factor/SCI Index No.	Year of Publication
A Comparative Study of Cloud Liquid water Content from Radiosonde Data at a Tropical Location	Swastika Chakraborty / Animesh Maitra	International Journal of Geosciences.vol.3 2012, pp. 44-49.	Journal	International	ISSN Print: 2156-8359 ISSN Online: 2156-8367	.3	2012
Interrelation between microphysical and optical properties of cloud and Rainfall in india region	Swastika Chakraborty / Animesh Maitra	”, Indian Journal of Radio and Space Physics, Vol. 42, 2013	Journal	National	ISSN:0367-8393	.07	2013
1.Radiometric measurements of cloud attenuation at a tropical location in india	swastika Charaborty, Animesh Maitra, Saurabh Das	Journal of Atmospheric Solar Terrestrial Physics”, 105-106, 2013, 97-100.	Journal	National	ISSN: 1364-6826	1.7	2013
A Compact ‘U’ Shaped Wide-Slot Monopole Microstrip-line Fed Antenna for Circular Polarization	I Sarkar, P P Sarkar, S Bhattachary	N3CD-2013, JIS College of Engg, Kalyani, pp 1-4.	Conference	National			2013
Novel Reduced Size Microstrip Antenna for Mobile Communication	I. Sarkar , Sk. S. Ali, S. Banerjee	N3CD-2013, JIS College of Engg, Kalyani, pp 50-53.	Conference	National			2013
Application of Swarm Intelligence Computation Techniques in PID Controller Tuning: A Review	B.Neogi, S.Ghosal, R.Darbar, A.Dasand D.N. Tibarewala	Book Chapter of Advances in Intelligent and Soft Computing, Springer Series2012,Volume1 32/2012,pp.	Book Chapter				2012
Study of Sampled Data Control Approach towards Prosthetic Eye Model for initiating the Non Deterministic Aspect	Arghadeep Mazumder, Soumya Ghosal, Susmita Das, Biswarup Neogi	Book Chapter of Communicatios in Computer and Information Science, 2012, Volume292, Part 2,169-177 Springer Link Publication.	Book Chapter				2012
Analysis & Control Towards Limb Prosthesis For Paraplegic & Fatigued Conditions By Introducing Lyapunov & Sample Data Domain Aspects	B.Neogi, S.Ghosal & S.Sarkar	International Review of Automatic Control (IREACO Praise Worthy Prize Publication) Vol.5, No. 4,pp.548-552,	Journal	International	[ISSN:1974- 6059]	SCI Indexed Impact Factor: 6.68	2012.
Simulation techniques and Prosthetic approach towards biologically efficient Artificial Internal Organs- An Overview	B.Neogi, S.Mukherjee, S.Ghosal, A.Das & D.N.Tibarewala	International Journal of Biomedical Engineering and Technology (JBET Inderscience Publication), VOL.9, NO.3, pp-213-229.	Journal	International	[ISSN(Online):1752-6426 - ISSN(Print):1752-6418]	0.5	2012

Automatic Speed Control Of Single Phase Induction Motor With The Variation Of Ambient Temperature	B. Neogi, R. Roy, S. Das, J. K. Ray, S. Barat,	International Journal of Scientific and Research Publications Volume 2, Issue 8,	Journal	International	[ISSN 2250-3153]		August 2012, pp.10-14
Dynamic Modeling and Optimizations of Mechanical Prosthetic Arm by Simulation Technique	Dr. B.Neogi, S. Ghosal, S. Ghosh, T.K. Bose, Dr.A.Das,	IEEE Sponsored International Conference on Recent Advances in Information Technology, Vol.01, p p-883-888 March 15-17, 2012. ISM, Dhanbad. IEEE Explored.	Conference	International			March 15-17, 2012
Study on the Platform of Dual Dependency under the Framework of Cloud Computing	Dr. Biswarup Neogi	International Journal of Engineering Associates, Dec Issue, pp.48-51	Journal	International			01-12-2012
Model Representation and Study of Essence Effect Creation through Internet Technological Aspect	Zinkar Das, Nilotpol Manna, Biswarup Neogi	Journal of Innovative Systems Design and Engineering, ,	Journal	International	ISSN (Paper)2222-1727 ISSN (Online)2222-2871	SCI Indexed Impact Factor 6.94	31 <sup>st</sup> Oct, 2013
Soft Analysis of Discrete System Function Introducing Recursive Method	B. Das, S. Bhattacharjee & B. Neogi	International Journal of Computer Applications (IJCA) Vol- 72, No. 14, May'13. pp.01-03.	Journal	International	[ISSN: 0975 – 8887]	0.814	14, May'13
Diagnosis and Troubleshooting of Computer Faults Based on Expert System and Artificial Intelligence	B. Neogi, S. Mandal, S. Chatterjee	International Journal of Pure and Applied Mathematics Vol-83, No. 5, 2013, 717-729	Journal	International	[ISSN: 1311-8080]		2013
Study and Overview on System Feedback Representations in Control Modelling with Artificial Neural Networks (ANN) Platform”,	S. Roy, Z. Das, S. Ghosh, B. Neogi	International Journal of Computer Applications (0975-8887), Vol- 69, No. 25, May'13, pp. 6-10	Journal	International		Impact Factor: 0.814	25, May'13
Soft Analysis of Discrete System Function Introducing Recursive Method	Dr. Biswarup Neogi	International Journal of Computer Applications (0975 – 8887), Volume 69– No.26	Journal	International			01-06-2013
Design of Microcontroller Based Low Cost Heart Rate Monitoring system	ANIRBAN PATRA	NCECS 2013	Conference	National			2013
Design of Microcontroller Based solar power system to protect wild animals	ANIRBAN PATRA	N3CD 2013	Conference	National	Applied for		2013
Design a Less Polluting solar Power Plant using Green Technology	ANIRBAN PATRA	ICNT 2013	Conference	International	ISBN:978-81-927756-0-9		2013
A Practical Study on Denial of Service Attack and shell code attack on a tiny Local area Network	Bikash Dey Abhishek Dey	"National Conference on Control ,Communication & Device Electronics ,Page no-58-61	Conference	National			2013
A Practical Simulation Study on Load Frequency Control using integral, PI, PID	Bikash Dey, Lusika Roy	"National Conference on Control ,Communication &	Conference	National			2013

controller for a 2 area interconnected power system		Device Electronics,Page-185-188						
Pitch Determination and pitch tracking of speech signals using implicit calculation of autocorrelation of temporal excitation signal.	Bikash Dey,Moumita Pal	"National Conference on Control ,Communication & Device Electronics,Page-348-354	Conference	National				2013
A new 5 x 5 Mask for edge detection of small long distance objects	Bikash Dey,Pranati Rakshit,Madhuc hhanda Dasgupta,	"National Conference on Control ,Communication & Device Electronics,Page-355-360	Conference	National				2013
Investigation on size reduction and bandwidth enhancement of slot loaded square patch frequency selective surfaces	RANJANA RAY	IJECT 2012 Vol 3,Issue 3	Journal	International	22307109	0.4		July-Sept 2012.
A microcontroller based respiration rate measurement system	Nilotpal Haldar	Recent advances in mathematics, technology and management ,P.P-35-38,	Conference	International				21-22 January 2012
A REVIEW ON HYBRID VEHICLE BATTERY: CHARGING ISSUES,PERFORMANCE AND PROTECTION	Nilotpal Haldar	3 <sup>rd</sup> Inter Engineering College Academic Meet 2012, 30-31 March 2012	Conference	National				30-31 March 2012
Automated Toll collection system along with Traffic counter and traffic light controller	Nilotpal Haldar	National conference on control, communication & device electronics, p.p- 227-231	conference	National				25 <sup>th</sup> to 26 <sup>th</sup> July 2013
MICROCONTROLLER BASED BANK VAULT SECURITY SYSTEM	Nilotpal Haldar	N3CD2013 p.p- 238-243	conference	National	Applied for			25 <sup>th</sup> to 26 <sup>th</sup> July 2013
“Automated Toll collection system along with Traffic counter and traffic light controller ”	Nilotpal Haldar	National conference on control, communication & device electronics, p.p- 227-231	conference	National	Applied for			25 <sup>th</sup> to 26 <sup>th</sup> July 2013
A Session Based Blind Watermarking Technique within the NROI of Retinal Fundus Images for Authentication Using DWT, Spread Spectrum and Harris Corner Detection	MOUMITA PAL	International Journal of Modern Engineering Research (IJMER),Volume 2	Journal	International				2012
Wavelet Based Watermarked Normal and Abnormal Heart Sound Identification using Spectrogram Analysis.	MOUMITA PAL	IEEE International Conference on Computational Intelligence and Computing Research,Page 23	Conference	International				2012
FCM Based Blood Vessel Segmentation Method for Retinal Images	Moumita Pal	International Journal of Computer Science and Network (IJCSN),Volume 1, Issue 3,	Journal	International				2012
A Study and Overview on Hybrid Technology For Next Generation Advanced Communication	Anirban Ghosal, Swati Banerjee4 & Dr.Biswarup	International Journal of Scientific and Research Publications, Volume	Journal	International	ISSN 2250-3153			February 2013

System	Neogi	3, Issue 2,					
Broadband Microstrip Antenna with Ring Ground plane	Anirban Ghosal, RajarshiSanyal, Rajeev Kr. Singh	N3CD 2013	Conference	National	Applied for		25 <sup>th</sup> to 26 <sup>th</sup> July 2013
FPGA Implementation of High Speed Numerically Controlled Oscillator for QAM Architecture	Aniruddha Ghosh,Mainuck Das,Subham Ghosh	NCACD 2012,Page No:84 to 86	Conference	National			2012
FPGA Implementation of High Speed Throughput OFDM Transceiver	Aniruddha Ghosh	IC3A 2013,Page No:207-212	Conference	National			2013
Ultra High Speed Factorial Design in Sub-nanometer Technology	Aniruddha Ghosh	ACER 2013	Conference	National			2013
Soft Analysis of Discreet System Function Introducing Recursive Method	Aniruddha Ghosh	IJCA	Conference	International			2013
Design of Microcontroller Based solar power system to protect wild animals	Aniruddha Ghosh	N3CD 2013, Page:202-205	Conference	National	Applied for		2013
FPGA Implementation of High Speed Throughput OFDM Transceiver	Subham Ghosh Mainuck Das,Aniruddha Ghosh	NCACD 2012,Page NO:207-212	Conference	National			2012
Ultra High Speed Factorial Design in Sub-nanometer Technology	Subham Ghosh	ACER 2013	Conference	National			2013
High Performance Novel Square root architecture using Ancient Indian Mathematics for High Speed Signal Processing	Subham Ghosh	2nd National Conference On Advanced Communication Systems And Design Techniques	Conference	National			2012
High Performance Novel Square root architecture using Ancient Indian Mathematics for High Speed Signal Processing	Subham Ghosh	2nd National Conference On Advanced Communication Systems And Design Techniques	Conference	National			2012
Study and overview on system feedback representation in control modeling with article neural network platform	Subham Ghosh,B.nego	International journal of computer application, volume 69	journal	International		0.821	2013
Ultra High Speed Factorial Design in Sub-nanometer Technology	Samayita Sarkar	ACER 2013	Conference	National			2013
Geometric Controllability of LTI MIMO Systems	Gautam Lohar	Vol. 5, No. 3	Journal	International	ISSN:1923-9181		2012
Twin Image Elimination in Digital Holography by Combination of Fourier Transformations	Gautam Lohar	Journal of Optics Stringer India	Journal	International	ISSN:0972-8821		2013
FPGA Implementation of High Speed Throughput OFDM Transceiver	Mainuck Das Aniruddha Ghosh,Subham Ghosh	NCACD 2012,Page No:207-212	Conference	National			2012
FPGA Implementation of High Speed Numerically Controlled Oscillator for QAM Architecture	Mainuck Das,Aniruddha Ghosh	NCACD 2012, Page No:84-86	Conference	National			2013
Study on Cardiovascular Diseases with compression	Mainuck Das,B.nego	International Journal of Scientific and	Journal	National	ISSN 2250-		2012

of Generalized ECG signal to support Biomedical Advancement		Research publications,Page No:1-7			3153		
FPGA Implementation of High Speed Throughput OFDM Transceiver	Rajan Ghosh,Mainuck das,subham ghosh,aniruddha ghosh	NCACD 2012,Page No:84-86	Conference	National			2012
High Performance Novel Square root architecture using Ancient Indian Mathematics for High Speed Signal Processing	Subham Ghosh	2nd National Conference On Advanced Communication Systems And Design Techniques	Conference	National			2012
Study and overview on system feedback representation in control modeling with article neural network platform	Subham Ghosh,B.nego	International journal of computer application, volume 69	journal	International		0.821	2013
Ultra High Speed Factorial Design in Sub-nanometer Technology	Samayita Sarkar	ACER 2013	Conference	National			2013
Geometric Controllability of LTI MIMO Systems	GAUTAM LOHAR	Vol. 5, No. 3	Journal	International	ISSN:1923-9181		2012
Twin Image Elimination in Digital Holography by Combination of Fourier Transformations	GAUTAM LOHAR	Journal of Optics Stringer India	Journal	International	ISSN:0972-8821		2013
FPGA Implementation of High Speed Throughput OFDM Transceiver	Mainuck Das Aniruddha Ghosh,Subham Ghosh	NCACD 2012,Page No:207-212	Conference	National			2012
FPGA Implementation of High Speed Numerically Controlled Oscillator for QAM Architecture	Mainuck Das,Aniruddha Ghosh	NCACD 2012, Page No:84-86	Conference	National			2013
Study on Cardiovascular Diseases with compression of Generalized ECG signal to support Biomedical Advancement	Mainuck Das,B.nego	International Journal of Scientific and Research publications,Page No:1-7	Journal	National	ISSN 2250-3153		2012
FPGA Implementation of High Speed Throughput OFDM Transceiver	Rajan Ghosh,Mainuck das,subham ghosh,aniruddha ghosh	NCACD 2012,Page No:84-86	Conference	National			2012
Ultra High Speed Factorial Design in Sub-nanometer Technology	Rajan Ghosh,Mainuck das,subham ghosh,aniruddha ghosh	ACER 2013	Conference	National			2013
High Performance Novel Squareroot architecture using Ancient Indian Mathematics for High Speed Signal Processing	Rajan Ghosh,subham ghosh,aniruddha ghosh	2nd National Conference On Advanced Communication Systems And Design Techniques	Conference	National			2012

Name Of The Department: Electronics And Instrumentation Engineering

Author	Title of the Paper	Detail of Paper	Nature of Paper	National/ International	ISBN No/ ISSN No.	Impact factor/SCI Index No.
Nilotpal Manna, Arijit Saha	Digital Principles and Logic Design Techniques		Book	Laxmi Publications, New Delhi.	ISBN-9788131806210	
Nilotpal Manna Arijit Saha	Digital Principles and Logic Design,		Book	Infinity Science Press, USA	ISBN-9781934015032	
Nilotpal Manna Arijit Saha Surojit Mondol	Information Theory, Coding and Cryptography,		Book	Pearson Education	ISBN-978-81-317-9749-5,	
D.Das, N.Halder, Soumen Ghosh	A Microcontroller Based Respiration Rate Measurement System	80	Proceedings of the International Conference	International Conference on "Recent Advances in Mathematics, Technology and Management" held in Bengal Institute of Technology & Management, Santiniketan, Birbhum WB		
Nilotpal Halder, Sourav Mukherjee, Ranjita Kundu, Nilanjan Choudhury, Soumen Ghosh	Automated Toll collection System along with Traffic Counter and Traffic Light Controller	227-231	Proceedings of the National Conference	Proceedings of the National Conference on "Control, Communication & Device Electronics(N3CD-2013)" held in JIS College of Engineering, Kalyani		

Author	Title of the Paper	Detail of Paper	Nature of Paper	National/ International	ISBN No/ ISSN No.	Impact factor/SCI Index No.
Bivas Roy1,*, Partha Pratim Sarkar2,Santosh Chowdhury1	Wideband rectangular wearable jeans antenna	Volume 55, Issue 6, pages 1270–1273,	Microwave and Optical Technology Letters	International Journal		
Madhura Chakraborty1, Hoimonti Ghosh2	Semi automatic water collecting car :A complete non conventional approach.	page-223-226,	National Conference on Control, Communication & Device Electronics (N3CD- July25-26, 2013).	National Conference paper		



Madhura Chakraborty ,Haimonti Ghosh,Anoy Kumar Dhon,	'Few barriers yet to cross :A review study on solar utilisation'	Volume-8,number-6,March,2013. Page 80-83.	International journal of Applied Engineering Research Volume-8,number-6,March,2013	International journal of Applied Engineering Research	(ISSN 0973-4562)	
Madhura Chakraborty, Arnab Ghosh,Innashree Bhadra,Sovan Pal	"Low cost Semi automatic water collecting car:a A model Based approach	PG:15.	International Conference proceedings	International Conference/Journal(Centum)	ISSN 2231-1475..	
Madhura Chakraborty ,Amisha Bharti ,Bhamini Jha ,Rupali Pathak Moumita Chandra	COIN BASED MOBILE CHARGER		National 3 <sup>RD</sup> ALL INDIA ACADEMIC MEET-2012 ORGANIZED BY FOSET,KOLKATA	National conference; Paper		

Author	Title of the Paper	Detail of Paper	Nature of Paper	National/International	ISBN No/ISSN No.	Impact factor/SCI Index No.
Rimi Ghosh,Debasree (Chanda) Sarkar,Nabanita Dasgupta	Aperture type Multiband Frequency Selective surfaces.	page 105-109	National Conference on Control, Communication& Device Electronics (N3CD-july25-26,2013),JISCE	National Conference		
S. Chakraborty, Susmita Das, A. Nag, J. K. Ray, S. Bhattacharjee, Dr. B. Neogi	Design and simulation approach introduced to egg peak detection with study on different cardiovascular diseases	Volume 2, Issue 12	International Journal of Scientific and Research Publications	International	ISSN2250-3153	
Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No.	Nature of Paper (Journal/Conference /Book Chapter)	National/International	ISBN No/ISSN No.	Journal Impact factor/SCI Index No.
Susmita Das, J. K. Ray, S. Bhattacharjee, Dr. B. Neogi	Study on different tuning approach with Incorporation of Simulation aspect for Z-N (ZIEGLER-NICHOLS) RULES	Volume 2, Issue 8	International Journal of Scientific and Research Publications	International	ISSN 2250-3153	

R. Roy, Susmita Das, J. K. Ray, S. Barat, Dr. B. Neogi	AUTOMATIC SPEED CONTROL OF SINGLE PHASE INDUCTION MOTOR WITH THE VARIATION OF AMBIENT TEMPERATURE	Volume 2, Issue 11	International Journal of Scientific and Research Publications	International	ISSN 2250- 3153	
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Author	Title of the Paper	Detail of Paper	Nature of Paper	National/ International	ISBN No/ ISSN No.	Impact factor/SCI Index No.
A. Mazumder, S. Ghosal, Susmita Das, Dr. B. Neogi	Study of Sampled Data Control Approach towards Prosthetic Eye Model for initiating the Non Deterministic Aspect		Springer link sponsored International conference on Information Processing (ICIP 2012)	International conference		
Sayanti Chakraborty, S. Das, A. Nag, J. K. Ray, S. Bhattacharjee, Dr. B. Neogi	Design and simulation approach introduced to egg peak detection with study on different cardio vascular diseases	Volume 2, Issue 12	International Journal of Scientific and Research Publications	International Journal	ISSN 2250- 3153	
Rimi Ghosh,Debasree (Chanda) Sarkar,Nabanita Dasgupta,	Aperture type Multiband Frequency Selective surfaces.	page 105-109	National Conference on Control, Communication& Device Electronics (N3CD-july25- 26,2013).	National Conference		
Rimi Ghosh, Nabanita Dasgupta	Size Reduction and Bandwidth Enhancement of a Frequency Selective surfaces.	page 387	National Conference on Control, Communication& Device Electronics (N3CD-).	National Conference		
Rimi Ghosh D.Sarkar ,P.P.Sarkar	“Dual Broad band Frequency selective Structures with multi resonant frequencies ”.	Volume 2 Issue 3 May (2013),p p192- 197	International Journal of Latest Trends in Engineering & Technology(IJLTET ),.	International Journal	ISSN 2278- 621X	
Rimi Ghosh D.Sarkar ,P.P.Sarkar	“Novel Compact, Dual Frequency FSS Design using Patch with Annular rectangular slots. ”	pp119- 122.	International Journal of Pure and Applied Physics. Volume 2 (2012), Research India Publications.	International Journal	ISSN 0973- 1776	

Author	Title of the Paper	Detail of Paper	Nature of Paper	National/ International	ISBN No/ ISSN No.	Impact factor/SCI Index No.
Rimi Ghosh D.Sarkar ,P.P.Sarkar	“Dual Broad band Frequency	Volume 3 Issue 1 (2012),	International Journal of Electronics and	International Journal	ISSN 2230- 7109,	

	selective Structures with multi resonant frequencies ”		Communication Technology(IJECT)			
Rimi Ghosh D.Sarkar ,P.P.Sarkar	Patch type FSS with Gridded Rectangular Loop.  1.	page 81-82.	International Conference on Engineering Education in the Century (E2NC-2012).	International Conference		
Chanchal Rungta, Debjani Lahiri, Devmalya Banerjee	TELEROBOT		National Symposium on Instrumentation (NSI-37) organized by Instrument Society of India (ISOI) IISc, Bangalore in collaboration with CSIO, Chandigarh.	National Symposium		
Debdipta Sarkar, Ritesh Kant Gupta, Vivek Kundu, Devmalya Bnaerjee	SOLAR POWER WITHOUT USING SOLAR CELLS		National Symposium on Instrumentation (NSI-37) organized by Instrument Society of India (ISOI) IISc, Bangalore in collaboration with CSIO, Chandigarh.	National Symposium		
Chandrima Roy, Prof. Kalyankumar Datta, Devmalya Banerjee	Design of a Quantitative Feedback Theory Based Controller for an Unstable System		“NCETETA '12”, Department of EEE, Apollo Engineering College, Chennai.			
Vivek Kundu, Arnab Mitra, Devmalya Banerjee	Silicon Technology in Smart Sensor		3rd ALL INDIA ACADEMIC MEET-2012 organized by Forum of Scientists, Engineers & Technologists (FOSET)	National		
Anish Mitra, Suvojit Bhowmick, Devmalya Banerjee	Automatic Level Measurement using a Thyristor Switching		3rd ALL INDIA ACADEMIC MEET-2012 organized by Forum of Scientists, Engineers & Technologists (FOSET)	National		

Debdipta Sarkar, Ritesh Kant Gupta, Devmalya Banerjee	Powering Ahead with a Few Non-Conventional Energy Sources		3rd ALL INDIA ACADEMIC MEET-2012 organized by Forum of Scientists, Engineers & Technologists (FOSET) on 30th – 31st March, 2012.	National		
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## Department of Bio Medical Engineering

Author	Title	Detail of Paper	Nature	National/International	Impact No./SCI Index/ISBN No./ISSN No.
M Dutta	Design and development of a Low Cost Hearing aid for Aural rehabilitation	2nd -3rd March 2012	Conference	National	978-81-923-0347-5
M Dutta	A GA Based Approach to Modeling and Simulation of Myoelectric Signals for Upper Limb prosthesis	February 4th -5th 2012	Conference	National	
Ganguly Bhattacharjee K and Nilotpal Manna	Temperature Monitoring System – An Embedded Approach.	PP 400-403, 2013	Conference	International	978-1-25-906393-0
Ganguly Bhattacharjee K and Sinha AK	Insulin Induced Down Regulation of the Estrogen Receptor Number in Neutrophils in the Synthesis of Maspin in Breast Cancer	PP 399- 400, 2013	Conference	National	
Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK	The role of neutrophil estrogen receptor status on maspin synthesis via nitric oxide production in human breast cancer	15(2):181-8, 2012	Journal	International	1340-6868
Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK	The “Cross Talk” between the Receptors of Insulin, Estrogen and Progesterone in Neutrophils in the Synthesis of Maspin through Nitric Oxide in Breast Cancer	8(2): 129-139, 2012	Journal	International	
Arindam Bit, Brato Chakraborty, Himadri Chattopadhyay	Dynamic of Blood flow in Stenosed Artery	27th -28 <sup>th</sup> February 2013	Conference	National	

Arindam Bit, Brato Chakraborty, Himadri Chattopadhyay	Hemodynamics of Stenosed Artery	1 <sup>st</sup> – 6 <sup>th</sup> January 2013	Conference	National	
Arindam Bit, Himadri Chattopadhyay	Hemodynamics of Stenosed Artery considering different Rheological models	27 <sup>th</sup> – 28 <sup>th</sup> December 2012	Conference	International	
Souvik Das	The Development of a Microcontroller Based Low-Cost Heart Rate Counter for Health-Care Systems	Vol. 4(2), 207-211, 2013.	Journal	International	2231-5381
Kasturi Roy, Gargi Ghosh, Souvik Das	The Development of a Low-Cost Galvanic Skin Response Meter	March, 2013.	Conference	National	
Souvik Das	Characterization of Postural Steadiness	July 6-7, 2012	Conference	National	

	of Post-Stroke Hemiplegic Patients by Force Platform Data Analysis				
Debasish Ghosh, Pritam Banik, Ankur Saha, Aloy Jyoti Bhowmik, Souvik Das	The Design of A Microcontroller Based Low-Cost Heart Rate Counter for Health Care Systems	March 30-31, 2012	Conference	National	

Author	Title	Detail of Paper	Nature of Paper	Level	ISBN No/ISSN No.	Impact factor/SI Index No	Year
M.Chattopadhyaya, S. Sen, M. M. Alam, and S. Chakrabarti	On site Coulomb repulsion dominates over the non-local Hartree-Fock exchange in determining the band gap of polymers	International Journal: Journal of Physics & Chemistry of Solids Accepted September 2013 <u>Journal Impact factor: 1.527</u>	<u>International Journal</u>	<u>International</u>	ISSN: 0022-3697	1.527	2013
S. Sen and S. Chakrabarti	In silico design of a tunable molecular spin filter using chromium-carbon-chromium chains.	International Journal Chem. Phys. <u>Journal Impact factor: 1.957</u> Revised October 2013 Chemical Physics Man Id: CHEMPHYS-D-13-00413.	<u>International Journal</u>	<u>International</u>	ISSN: 0301-0104	<u>1.957</u>	2013
S.Singha Roy	The simple theoretical analysis of quantum well wires superlattice (QWSL) of communication technology	8773,6 DoI:10.1117/12.2019051	SPIE Proceedings, Photon Counting Applications IV; and Quantum Optics and Quantum Information Transfer and Processing	International Conference	ISBN: 9780819495754		2013
S.Singha Roy	Theoretic Approach to the Fermi energy under size quantization with Quantum Mathematical Modelling in Nano-materials	Pp.30	ICFMMSA-2012 Bulletin of Calcutta Mathematical Society	International Conference	0008-0659		2013

Abhijit Biswas and Swagata Bhattacharjee	Accurate modeling of the influence of back gate bias and interface roughness on the threshold voltage of nanoscale DG MOSFETs	vol. 53, page 363-370	Journal	International	ISBN: 0026-2714	1.14	2013
M.Chattopadhyaya, M. M. Alam, S. Sen, and S. Chakrabarti	Electrostatic Spin Crossover and Concomitant Electrically Operated Spin Switch Action in a Ti-Based Endohedral Metallofullerene Polymer	International Journal: Physical Review Letters Phys. Rev. Lett. 109, 257204 (2012) <u>Journal Impact factor: 7.943</u>	<u>International Journal</u>	International	ISSN 1079-7114 (online) 0031-9007 (print).	7.943	<u>2012</u>
M.Chattopadhyaya, S. Sen, M. M. Alam, and S. Chakrabarti	The role of relativity and non-local exchange on the band gap of thiophene, selenophene and tellurophene oligomers	International Journal: THE JOURNAL OF CHEMICAL PHYSICS J. Chem. Phys.136, 094904 (2012). <u>Journal Impact factor: 3.164</u>	<u>International Journal</u>	International	ISSN: 0021-9606 E-ISSN: 1089-7690		<u>2012</u>
S.Singha Roy	A Simple Theoretical analysis of quantum transport of 3-dimensional photoelectric effect	pp.1-3 DoI-10.1364	IEEE PHOTONICS	International	987-1-4773-4718-1		2012
S.Singha Roy	Determination of the density –of states function in highly degenerate semiconductors in the existence of electric field strength	8542H PP.8 DOI: 10.1117/12.970544	SPIE Electro-Optical Remote sensing	International	ISBN:87808 19492838		2012

Author	Title	Detail of Paper	Nature	National/ International	ISBN /ISSN No.	Impact factor/SCI Index No.	Year
Reetam Mondal	Dissemination of Nano-Scale Technology in Social and Ethical Dimensions	Book of Abstracts, Page No.19.	Conference (ETTVE 2012)	National	Not Applicable	Not Applicable	2012
Reetam Mondal	Open Loop Power and Temperature Control System using 555 Timer and Optically Isolated TRAIC Driver Circuit	Book of Abstracts, Page No.19	Conference (MFHS 2012)	National	Not Applicable	Not Applicable	2012
Reetam Mondal	Microcontroller based Temperature Monitoring and	Vol. 153, Issue 6, pp.148-154	International Journal (IFSA)	International	ISSN No. 1726-5479	e-Impact factor: 205.767	2013

	Closed Loop Control to study the Reaction of Controlled Variable with Respect to Load Changes						
Reetam Mondal	PLC Based Temperature Monitoring and Closed Loop Control of a Reaction Vessel	Conference Proceedings Page No.150-157	Conference (N3CD 2013)	National	Not Applicable	Not Applicable	2013
Reetam Mondal	Application of Angular Position Control System of Stepper Motor in Robot Arm Movement based on 8051 Microcontroller	Conference Proceedings Page No.217-222	Conference (N3CD 2013)	National	Not Applicable	Not Applicable	2013
Reetam Mondal	Embedded System of DC Motor Closed Loop Speed Control based on 8051 Microcontroller	Book of Abstracts, Page No.119	International Conference (CIMTA 2013)	International	ISBN No. 978-93-5123-672-3	Not Applicable	2013
Pal, B., Biswas, P.	GA Based FGP to Solve BLP Model of EEPGD Problem	Accepted for publication in Encyclopedia of Business Analytics and Optimization	Book Chapter	International	Not Applicable	Not Applicable	2013
Pal, B., Biswas, P., Mukhopadhyay, A.	GA Based FGP Approach for Optimal Reactive Power Dispatch	Accepted for publication in Procedia Technology, Elsevier	Conference	International	ISSN: 2212-0173	Not Applicable	2013
Chakraborti, D., Biswas, P., Pal, B.	FGP Approach for Solving Fractional Multiobjective Decision Making Problems using GA with Tournament Selection and Arithmetic Crossover	Accepted for publication in Procedia Technology, Elsevier	Conference	International	ISSN: 2212-0173	Not Applicable	2013
Pal, B., Mukhopadhyay, A., Biswas, P., and Mukherjee, S.	A Priority based Fuzzy Goal Programming Method for Solving Thermal Power Generation-Dispatch Problems using Genetic Algorithm	CSI Journal of Computing, Vol. 2, No. 1, pp. 62-71,	Journal	National	ISSN:2277-7091	Not Applicable	2013
Pal, B., Chakraborti, D., Biswas, P., Mukhopadhyay, A.	An Application of Genetic Algorithm Method for Solving Patrol Manpower Deployment Problems through Fuzzy Goal Programming in	International Journal of Bio-Inspired Computation, Vol. 4, No. 1, pp.47-60, 2012.	Journal	International	ISSN:1758-0374	1.351	2012

	Traffic Management System: A Case Study						
Pal, B., Biswas, P., Mukhopadhyay, A	Using Genetic Algorithm to Goal Programming Model of Solving Economic-Environmental Electric Power Generation Problem with Interval-Valued Target Goals	Communications in Computer and Information Science, Springer, Heidelberg, Vol. 283, pp. 156-169,	Conference	International	ISSN: 1865-0929	Not Applicable	2012
Pal, B., Mukhopadhyay, A., Biswas, P., and Mukherjee, S.	Using Fuzzy Goal Programming to Solve Electric Power Generation and Dispatch Problem via Genetic Algorithm	International Conference on Intelligent Infrastructure, McGraw Hill Professional, pp. 291-297, 2012 .	Conference	International	ISBN 978-1-25-906170-7	Not Applicable	2012
Chakraborti, D., and Biswas, P.	An Application of Genetic Algorithm for Solving Academic Personnel Planning Problems in University Management System via Fuzzy Goal Programming with Penalty Functions	International Journal of Computer Applications, Vol. 38, No. 12, pp.23-32, 2012.	Journal	International	0975-8887	0.821	2012
S.Pal, T.K.Basak, S.Das, R.Chakraborty, N.C.Ganguly.	‘THREE LEVEL VSI BASED D-STATCOM CONTROL IN LOW VOLTAGE DISTRIBUTION SYSTEM’	International conference on Computation and communication Advancement (IC3A)-2013	Conference	International	ISSN:978-1-25-906393-0	Not Applicable	2013
S.Das, S.Pal, T.K.Basak, N.C.Ganguly.	‘CLOCK SYNCHRONIZATION OF A REAL TIME NETWORK CONTROL SYSTEM USING INTERACTIVE CONVERGENCE ALGORITHM’	International conference on Computation and communication Advancement (IC3A)-2013	Conference	International	ISSN:978-1-25-906393-0	Not Applicable	2013
S.Pal and S.Dalapati	‘Digital Simulation of two level inverter based on space vector pulse width modulation’	Vol.5, Issue 4, pp.2557-2568.	Indian Journal of Science and Technology (IJST)	International	ISSN:0974-5645	Not Applicable	2012
S.Pal and S.Dalapati	‘Low Distortion Three Phase Sine PWM Using a General Purpose Micro-Controller’	Vol.4, No.4, pp.378-408.	International Journal of Power ELECTRONICS (INDERSCIENCE Publishers)	International	ISSN:1756-6398	Not Applicable	2012



S.Pal and S.Dalapati	'Digital Simulation of Eighty-Four pulse Statcom for improvement of Power Quality'	Vol.5, No.III, pp.225-236.	International Journal of Engineering Research and Industrial Application (IJERIA)	International	ISSN:0974-1518	Not Applicable	2012
S.Pal , S.Dalapati & S.Das	'Digital Simulation of Forty Eight pulse STATCOM for Reduction of Voltage Instability and Improvement of Power Quality'	Vol.5,Issue 10,pp.3506-3518.	Indian Journal of Science and Technology (IJST)	International	ISSN:0974-5645	Not Applicable	2012
S.Pal , S.Dalapati & N.C.Ganguly.	'Application of Multilevel Voltage-Source-Converter(VSC)in FACTS devices for Power System Voltage Control & Reactive Power Compensation'	Vol.2,Issue 6,pp.4201-4206	International Journal of Modern Engineering Research (IJMER)	International	ISSN:2249-6645	Not Applicable	2012
S.Pal,S.Dalapati,S.Ghosh,S.Biswas & S.Das.	'Digital Simulation of a Statcom based on twelve pulse VSC for FACTs application in Power System'	Vol.3,No.2,pp.135-144	Indian Journal of Scientific Research (IJSR)	International	ISSN:2250-0138	Not Applicable	2012
S.Pal, S.Dalapati, S.Das,A.M.Roy.	'Evaluation of Dual Three-Level VSI based STATCOM for improvement of Power Quality'	Vol.1(8),pp.453-460.	Journal of Academia and Industrial Research (JAIR)	International	ISSN:2278-5213	Not Applicable	2013
S.Pal,S.P.Ray, L.Chongdar,D.Dasgupta,D.Gayen	'Reduction of THD using three level twenty-four pulse VSI based STATCOM'	Vol.1(12),pp.740-746.	Journal of Academia and Industrial Research (JAIR)	International	ISSN:2278-5213	Not Applicable	2013
S.Pal,S.P.Ray, L.Chongdar,D.Dasgupta.	'Performance analysis of a three level twelve- pulse VSC based STATCOM under fault condition'	Vol.6(9),pp.5189-5194.	Indian Journal of Science and Technology (IJST)	International	ISSN:0974-5645	Not Applicable	2013

Prof. Ratan Mandal (JU) & Prof. Rakesh Naskar	An unique method of characterization & Performance estimation of various solar PHOTOVOLTAIC cells/modules Using Microcontroller: A review.	Instrumentation & Control (NATCONIC 2013)	Conference	National	ISBN No.978-93-82359-56	Not Applicable	2013
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Prof. Ratan Mandal (JU) & Prof. Rakesh Naskar	A Study of Solar Photovoltaic Application in Irrigation System and Its Performance Analysis in Laboratory Scale	Volume 1, Issue 1, pp. 1-14,	Journal (IJAEED)	International	Not Applicable	Not Applicable	2012
Prof. Ratan Mandal (JU) & Prof. Rakesh Naskar	A Comparative Study and Performance Analysis of Two Similar Solar Photovoltaic Irrigation Systems; One with SPV Panel Cleaning Mechanism and another One, without Cleaning Mechanism	Volume 1, Issue 1, pp. 15-35,	Journal (IJAEED)	International	Not Applicable	Not Applicable	2012
Lusika Roy	Economic Environmental Dispatch of Thermal Power System Using Simulated Annealing – Based Multiobjective Optimization Algorithm: AMOSA	IC3A-2013, Pg.No. 14-22	Conference	International	ISBN No.- 13:978-1-25-906393-0	Not Applicable	2013
Bikash Dey, Lusika Roy	A practical simulation study on load frequency control using Integral, PI, PID controller for a two area interconnected power system	CCDE-2013	Conference	National	Not Applicable	Not Applicable	2013
Lusika Roy, Bikash Dey	Simulation study of load frequency control using PI & PID controller for interconnected power systems	MTPCMD-2013	Conference	National	Not Applicable	Not Applicable	2013
Soma Biswas, S.K. Goswami, S. K. Mitra	Reduction of Harmonics Distribution with Optimal Siting and Sizing of Distributed Generation	IC3A-2013	Conference	International	ISBN No.- 13:978-1-25-906393-0	Not Applicable	2013
Soma Biswas, S.K. Goswami, A. Chatterjee	A study of the factors influencing the optimal size and site of DG	ICEES-2013 (Singapore)	Conference	International	Not Applicable	Not Applicable	2013
S. Biswas, S. K. Goswami, A. Chatterjee	Optimum distributed generation placement with voltage sag effect minimization	Energy Conversion and Management Vol.53 (2012) pp.163-174.	Journal	International	ISSN No.: 0196-8904	2.64	2012
Soma Biswas, S.K.Goswami,A. Chatterjee	A study of the factors influencing the optimal size and site of DG	JOCET	Journal	International	To be published	To be published	-----

P. Ray, A. Basuray and A. K. Maitra	Optimum Wavelet Bases Selection for Wavelet Based De-Noising in Partial Discharge Measurement	Proceeding of ICT'13, Tamil Nadu, India, 11th - 12th April 2013, pp 1110-1113, 2013	Conference	International	(ISBN – 978–1–4673–5759–3)	Not Applicable	2013
P. Ray, A. Basuray and A. K. Maitra	Extract Partial Discharge Signal using Wavelet for On-line Measurement	Proceeding of ICCSP'13, Melmaruvathur, India, 3rd - 5th April 2013, pp 888-892, 2013.	Conference	International	(ISBN – 978–1–4673–4865–2)	Not Applicable	2013
P. Ray, A. Basuray and A. K. Maitra	A New Threshold Function for De-noising Partial Discharge Signal based on Wavelet Transform	Proceeding of ICSIPR'13, Coimbatore, India, 7th - 8th Feb. 2013, pp 185-189, 2013.	Conference	International	(ISBN – 978–1–4673–4861–4)	Not Applicable	2013
Suparna Pal	A Novel Software Approach Scheme Analysis And Utility of Transient Stability Analysis In Power System	Volume 1, Issue 10 (December-2012)	IJERT(International journal of Engineering Research & Technology)	International	ISSN:2278-0181	0.8	2012
Suparna Pal	Power System Transient Stability Analysis and Improvement by FACTS Controllers”	Volume 1, Issue 10 (December-2012)	IJERT(International journal of Engineering Research & Technology)	International	ISSN:2278-0181	0.8	2012
Suparna Pal	Design of Robotics Technology For Application in the Electrical Field with Narrow and Hazardous Space	Volume 1, Issue 10 (December-2012) Transient Stability pp-57-62, ISSN:2278-1323.	IJAR CET(International journal of Advanced Research in Computer Engineering & Technology)	International	ISSN:2278-1323.	Not Applicable	2012
Suparna Pal	A New Approach to Improve Power Quality and Energy saving Scheme by Dimming of Light Intensity	Volume 1, Issue 10 (December-2012) pp-50-56,	IJAR CET(International journal of Advanced Research in Computer Engineering & Technology)	International	ISSN:2278-1323.	Not Applicable	2012
Suparna Pal	Analysis of An Electrical Sub System at Loss of Excitation Condition in Mat lab Simulink	11th and 12th January, 2012	International Conference on Recent Development in Computational Intelligence and Engineering applications (ICRDCIEA-2012)	International	Not Applicable	Not Applicable	2012
Suparna Pal	Data Telemetry and		International	International	ISBN	Not	2013

	SCADA for Continuous System Telemetry Harness		Conference on Computation and Communication Advancement (IC3A-2013)		No.-13:978-1-25-906393-0	Applicable	
Suparna Pal	An Automation of Electrical Application or Saving of Energy and Improvement of Reliability of Power System		International Conference on Computation and Communication Advancement (IC3A)-2013	International	ISBN No.-13:978-1-25-906393-0	Not Applicable	2013
Suparna Pal	A Novel Study of Automatic Generation Control by Software Analysis		International Conference on Computation and Communication Advancement (IC3A)-2013	National	ISBN No.-13:978-1-25-906393-0	Not Applicable	2013
Suparna Pal	The Soft Control Analysis of Load Frequency Control and mitigation of Instability of Power System		National Conference on Control, Communication & Device Electronics(N3CD-2013)	National	Not Applicable	Not Applicable	2013
Suparna Pal	A Novel Software Approach Control Scheme of Renewable Energy Application in Smart Grid”		National Conference on Control, Communication & Device Electronics(N3CD-2013)	National	Not Applicable	Not Applicable	2013
Suparna Pal	The Soft Control Analysis of Load Frequency Control and mitigation of Instability of Power System		National Conference on Control, Communication & Device Electronics(N3CD-2013)	National	Not Applicable	Not Applicable	2013
Suparna Pal	Fuzzy logic controller as a power system stabilizer and optimizer		National Conference on Control, Communication & Device Electronics(N3CD-2013)	National	Not Applicable	Not Applicable	2013



Author	Title	Detail	Nature	Level	ISBN No/ ISSN No.	Journal Impact factor/S CI Index No.	Year of Publication
B.B. Pal, S. Gupta,	A Genetic Algorithm Based Fuzzy Goal Programming Approach for Solving Fractional Bilevel Programming Problems	International Journal of Operational Research (IJOR), Vol. 14, No.4, pp. 453-471, InderScience 2012.	Journal	International			2012
A. Banerjee, S. Gupta	Production Systems for Identification of Correspondence between Genetic Patterns and Hand-written Signatures in a Family Hierarchy	Int. Conf. on Electrical, Electronics and Computer Engineering (EECE) 2013, ISBN 978-81-927182-2-4 Page 12-18	Journal	International	ISBN 978-81-927182-2-4 Page 12-18		2013
S. Gupta, S. Das, P K Pal,	“Predictability in viral computing”,	Procedia Technology, Elsevier Science Pub., Vol. 4, pp. 530-535, 2012	Conference	International			2012
S. Gupta, B. Chatterjee	Compiler with auto-debugger: an intelligent computing approach towards self-improvised correction of errors	Procedia Technology, Elsevier Science Pub. Vol. 4, pp. 286-296, 2012	Conference	International			2012
S. Gupta, S. Chatterjee	“Text Dependent Voice Based Biometric Authentication System using Spectrum Analysis and Image Acquisition”,	Advances in Intelligent and Soft Computing, Springer, Vol. 166, pp. 61-70, DOI: 10.1007/978-3-642-30157-5_7	Conference	International	978-3-642-30157-5_7		
S. Gupta, S. Mazumder, S. Mondal,	“Interactive Investigation Support System Design with Data Mining Extension”,	Advances in Intelligent and Soft Computing, Springer, Vol. 166, pp. 71-81, DOI: 10.1007/978-3-642-30157-5_7	Conference	International	DOI: 10.1007/978-3-642-30157-5_7		
S. Gupta, S. Das,	“ Document to Presentation Converter under the Framework of Natural Language Processing”,	Proceedings of the International Conference of Business and Information Management (ICBIM) 2012, ISBN: 978-81-8424-744-2, Vol-II, pp.92-112, 2012.	Conference	International	ISBN: 978-81-8424-744-2		2012
S. Sarkar, S. Gupta,	“A Comprehensive Approach for Fruit Pattern Recognition Under the Framework of Digital Image Processing”,	In proc. of Int. Conf. on Electrical, Electronics and Computer Engineering (EECE) 2013,	Conference	International	ISBN 978-81-927182-2-4		2013

		ISBN 978-81-927182-2-4 Page 19-23, 2013.					
S. Roy, S. Gupta,	“An Inter-dependent Cloud Computational Framework Incorporating Multi-platform Switchover”,	In proc. of Int. Conf. on Electrical, Electronics and Computer Engineering (EECE) 2013, ISBN 978-81-927182-2-4 Page 24-29, 2013.	Conference	International	ISBN 978-81-927182-2-4		2013
Pranati Rakshit	Robust Watershed Segmentation of Noisy Image Using Wavelet”	Vol. 1(2),117-122	International Journal of Computer Science & Communication Networks	International	ISSN:249-5789		2012
Pranati Rakshit	A Comparative Assessment of the Performances of Different Edge Detection Operator using Harris Corner Detection Method”	Vol.59,number 19,December 2012,9798-4335()	International Journal of Computer Application	International	ISSN : 973-93-80871-09-1		2012
Satrughna Singha	A New Architecture for FPGA Implementation of A MAC Unit for Digital Signal Processors using Mixed Number System	Volume 40, Issue 2, pp. 33-38, May 2012, ACM New York, USA.	ACM SIGARCH Computer Architecture News	International	ISSN:0163-5964		2012
Satrughna Singha	Floating Point RNS”: A New Concept For Designing The MAC Unit of Digital Signal Processor	Volume 40, Issue 2, pp. 39-43, May 2012, ACM New York, USA.	ACM SIGARCH Computer Architecture News	International	ISSN:0163-5964		2012
Mr. Dharmpal Singh	A Comparative Study to Select a Soft Computing Model for Knowledge Discovery in Data Mining	Vol. 2, no. 2, pp. 6-19, April, 2012.	International Journal of Artificial Intelligence and Knowledge Discovery	International			2012
Mr. Dharmpal Singh	A Comparative Study to discover the knowledge in data mining by soft computing model	pp.90-94, Nov. 22-23, 2012	CCSN-2012 1st International Conference on Computing, Communication and Sensor Network	International			2012
Mr. Dharmpal Singh	A Comparative Study to Select a Soft Computing Model for Developing the Knowledge Base of Data mining with Association Rule by factor Analysis	Vol. 2, No. 1, November, 2012.	International Journal of Advancements in Computer Science and Information	International			2012

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Mr. Dharpal Singh	An Effort to extract the knowledge of Data Mining using the soft computing methodology		International Journal of Scientific and Engineering Research (IJSER) (accepted).	International			2012
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Mr. Sudarshan Nandy (M.TECH.) Asst. Professor of CSE	Analysis of a Nature Inspired Firefly Algorithm based Back-propagation Neural Network Training.	Published by Foundation of Computer Science, New York, USA	International Journal of Computer Applications	International			2012
Mr. Sudarshan Nandy (M.TECH.) Asst. Professor of CSE	An Improved Gauss- Newtons Method based Back-propagation Algorithm for Fast Convergence		International Journal of Computer Applications	International			2012
Mr. Abhijit Sarkar(M.Tech) Asst. Professor	Modified Apriori Algorithm to find out Association Rules using Tree Based Approach	Page: 211		International	2012, ISBN:8 1- 85824- 46-0”,		2012
Mr. Abhijit Sarkar(M.Tech) Asst. Professor	A Novel Approach for Block Based Data Encryption	Page: 218		International	CCSN 2012”, ISBN:8 1- 85824- 46-0		2012
Miss Monalisa	1. BioHash Code Generation from Electrocardiogram		accepted and to be published at the 3rd IEEE	International			2013



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Miss Monalisa Dey(M.Tech) Asst. Professor	2. An improved approach of cryptography using triangulation and MSB iteration technique		published in the proceedings of International conference on Computing, communication and sensor network, Rourkela	International			2012
Miss Monalisa Dey(M.Tech) Asst. Prof.	3. Cellular automata based consensus in the presence of node and link failure		published in the proceedings of International conference on Computing, communication and sensor network, Rourkela	International			2012
Miss Monalisa Dey(M.Tech) Asst. Professor	4. An Efficient Cellular Automata based Leader Election Scheme		Published in the volume in IJCA November 2012 edition	International	ISBN : 973-93- 80870- 40-6		2012
Miss Monalisa Dey(M.Tech) Asst. Professor	Quick consensus in the presence of both node and link failure	pages-100-106.	published in the proceedings of national conference on Recent Advances in Communication, Control and Computing Technology	National	electron ics version with ISBN Number : 978- 81- 88894- 34-5 in collabor ation with Benison Educati on , India,		2012
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Sudipta Sahana	Weight Based Hierarchical Clustering Algorithm for Mobile Ad hoc Networks		ELSEVIER proceedings of the International Conference on Modelling, Optimisation and Computing (ICMOC 2012) on 10th -11th	International	Proceeding a Engineering 38 (2012) 1084		2012

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Sudipta Sahana	A Pictorial Block Steganography Based Secure Algorithm for Data Transfer		the 1st INTERNATIONAL CONFERENCE on Computing, Communication and Sensor Network November 22nd and 23rd , 2012	International	Number 4 (ISBN: 973-93-80873-34-0)		2012
Sudipta Sahana	Asymmetric Key Based Secure Data Transfer Technique		the 1st INTERNATIONAL CONFERENCE on Computing, Communication and Sensor Network November 22nd and 23rd , 2012	International	Number 3 (ISBN: 973-93-80873-33-2)		2012
Sudipta Sahana	Secure Authentication Based Hierarchical Routing for VANET		International Conference on Computation and Communication Advancement (IC3A) January 11th and 12th, 2013	International	ISBN:- 978-1-25-906393-0		2013
Nilanjan Dey	A Session based Multiple Image Hiding Technique using DWT and DCT	Volume 38– No.5, January 2012,	International Journal of Computer Applications	International	ISSN: 0975 – 8887		2012
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Nilanjan Dey	A Bio-metric Authentication Based Secured ATM Banking System	Volume 2, Issue 4, April 2012	International Journal of Advanced Research in Computer Science and Software Engineering	International	ISSN: 2277 128X	2012
Nilanjan Dey	FCM Based Blood Vessel Segmentation Method For Retinal Images	Volume 1, Issue 3	International Journal of Computer Science and Network (IJCSN)	International	(ISSN 2277-5420), June 2012	2012
Nilanjan Dey	Shape & Size Analysis Of Mineral Grains From Photomicrographs Using Harris Corner Detection	Vol. 2 No. 2 May-July 2012,	International Journal of Advances in Engineering, Science and Technology (IAEST)	International	(ISSN: 2249-913X)	2012
Nilanjan Dey	Wavelet Based QRS Complex Detection of ECG Signal	Vol. 2, Issue 3, May-Jun 2012, pp.2361-2365 [Indexed at EBSCO Host, SCOPUS]	International Journal of Engineering Research and Applications	International	ISSN: 2248-9622	2012
Nilanjan Dey	Wavelet Based Normal and Abnormal Heart Sound Identification Using Spectrogram Analysis	Vol. 3 No. 6 June 2012	International Journal of Computer Science & Engineering Technology (IJCSET)	International	ISSN: 2229-3345	2012
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Nilanjan Dey	Wavelet Based Watermarked Normal and Abnormal Heart Sound Identification using Spectrogram Analysis		2012 IEEE International Conference on Computational Intelligence and Computing Research (ICIC),Tamil nadu College of Engineering, Coimbatore,India, Dec 18 - 20, 2012	International			2012
Nilanjan Dey	Color Image Encoding	International Conference on	Conference	International			2012

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Nilanjan Dey	A Novel Steganographic approach of Offline Handwritten Signature Authentication Based on DWT	International Conference on Recent Trends of Computer Technology in Academia(ICRTCTA 2012), Udaipur, Rajasthan , India, 21-23 rd April 2012	Conference	International			2012
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Nilanjan Dey	Feature Analysis for the Reversible Watermarked Electrooculography Signal using Low Distortion Prediction-error Expansion	2012 International Conference on Communications, Devices and Intelligent Systems (CODIS), Jadavpur University, Dec-28-29, IEEE Explore	Conference	International			2012
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Nilanjan Dey	A Novel Block Matching Algorithmic Approach	International Conference on	Conference	International			

	with Smaller Block Size for Motion Vector Estimation in Video Compression	Intelligent Systems Design and Applications (ISDA-2012), Kochi, 27-29 Nov. 2012, IEEE Xplore					
Nilanjan Dey	An Efficient Motion Estimation Algorithm using Division Mechanism of Low and High Motion Zone	International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing, iMac4s-2013, Kerala, India, On 22 - 23 March 2013, IEEE Xplore	Conference	International			
Nilanjan Dey	A Study of Taxonomy of Digital Watermarking and Attacks	The Third International Conference on Computer Science and Information Technology (CCSIT- 2013), February 18- 20, 2013, Bangalore, India, Springer in Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST) Series	Conference	International			2013
Nilanjan Dey	BioHash Code Generation from Electrocardiogram Features	3rd IEEE International Advance Computing Conference (IACC-2013) February 22-23, 2013, Ghaziabad (UP), IEEE Xplore	Conference	International			2012
Nilanjan Dey	Detection and Measurement of Arc of Lumen Calcification from Intravascular Ultrasound using Harris Corner Detection	National Conference on Computing and Communication Systems (NCCCS), Dr. B.C Roy Engineering College, Durgapur, 21-22 Nov. 2012,	Conference	National			2012



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Nilanjan Dey	Detection of Bimalleolar fractures Using Discrete Wavelet Transformation	National Conference on Pervasive Computing and Communications, National Conference on Pervasive Computing and Communications-2012(NCPCC-2012),Budge Budge Institute of Technology,2-3 March 2012	Conference	National			2012
Nilanjan Dey	Online ERP Security Validation by Multi Biometric Authentication System Using DWT and SUSAN Corner Detection	Sustainable Business Growth and Modern Management, Centre For Management Studies,JIS College Of Engineering, April 27-28, 2012	Conference	National			2012
Nilanjan Dey	A Robust DWT Based Signature Authentication Technique for E-Commerce Services	Sustainable Business Growth and Modern Management,Centre For Management Studies,JIS College Of Engineering, April 27-28, 2012	Conference	National			2012
Nilanjan Dey	Alattar's Method Based Reversible Watermarking Technique of EPR within Heart Sound in Wireless Telemonitoring	Intellectual Property Rights And Patent Laws,IPRPL-2012, GKCEM, K.P.Basu Memorial Auditorium, Jadavpur University, August 25, 2012	Conference	National			2012
Nilanjan dey, Sourav Samanta,	Optimisation of Scaling Factors in Electrocardiogram Signal Watermarking using Cuckoo Search	International Journal of Bio-Inspired Computation (IJBIC), 2013 Vol.5, No.5 , pp.315 - 326	Journal	International	ISSN print: 1758-0366	1.351	2013

Abhijit Sarkar	Modified Apriori Algorithm to find out Association Rules using Tree based Approach	International Journal of Computer Application	Journal	International			2012
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Authors	Title of the Paper	Detail	Nature of Paper	Level	Journal Impact No./SCI Index/ISBN No./ISSN No.
Dr. Suman Kumar Dawn	Designing Effective Distribution Strategies –An Empirical Study	Vol. 49, No.1 &2, 2009 , pp.1-16	Survey (Journal of IISWBM	National	ISSN : 0586-0008
Dr. Suman Kumar Dawn	The Strategies, Challenges, Opportunities and Growth Dimensions of the Organised retail Sector: An Analysis on Indian perspective	Vol .II , No.2 , July-December , 2008, pp.13-26	JIS Management Vista (JIS Management Journal)	National	ISSN : 0974-0872
Dr. Suman Kumar Dawn and P.K. Bardhan	Role and Efficacies of Supply Chain Management in Indian Automobile Industry : A Case Study of Two Leading Indian Automobile Compaines,	vol. –VIII, number 2, July – December 2008	Kindler ( Management Journal of Army Institute of Management), Army Institute of Management	National	ISSN 0973-0486
Dr. Suman Kumar Dawn and M.K. Das	Reengineering Branding Strategy : A New Paradigm of Sustainable Competitive Advantage with Special Emphasis on FMCG Segment in India	vol.2, Issue 2, Jan-Jun 2010	Domain	National	ISSN No. 0973-9564
Dr. Suman Kumar Dawn and Prof. T.K. Bose	An Analysis of The Impact of Promotional Elements on Sales and Profits : An Empirical Study	Volume 10, No 2 July-December 2009	Amity Business Review	National	ISSN No. 0972-2343
Dr. Suman Kumar Dawn and Anindya Guha	E-CRM : A Critical Analysis by Developing an Effective Model	vol. VI, Number 3, July-September 2010	Asia pacific Business Review	National	ISSN : 0973-2470
Dr. Suman Kumar Dawn & S Paul	Relevance of Logistics in Supply Chain Management for overall Customer Satisfaction: An Empirical Study	Volume -7, Issue 2, July – December, 2009	Review of Professional Management, New Delhi Institute of Management	National	ISSN-0972-8686
Dr. Suman Kumar Dawn & S Paul	Developing Brand Strategies of Pharmaceutical Products: An Empirical Study on Diabetic Products	vol. 50, nos. 1&2, January-June 2010	Survey, IISWBM	National	ISSN: 0586-0008
Dr. Suman Kumar Dawn & S Paul	Managing Sales through Sales Force Motivation: An Empirical Study Based on Indian Financial Organisations	vol.IX, no.2, issue July-December 2009-10	Kindler ( Journal of Army Institute of Management , Kolkata)	National	ISSN 0973-0486
Dr. Suman Kumar Dawn and M.K. Das	CRM: An Essential tool for the success of Airline Industry	Vol.- II , Issue-1 , January-2010	Proficient, The International Journal on Management	International	ISSN 0975-475X
Dr. Suman Kumar Dawn & S. Biswas	Managing Absenteeism: A Study on Spanco BPO Services Limited	vol. IV, No.1, January-June 2010	JIS Management Vista	National	ISSN : 0974-0872
Dr. Suman Kumar Dawn	Developing Distribution Strategies for Effective Operations: An Empirical Study Based on Tropicana	vol. 41, no.2, February, 2011	Indian Journal of Marketing	National	
Dr. Suman Kumar Dawn &	Electronic Customer Relationship Management	vol.1, no.1, March 2011	International Journal of	International	E-ISSN 2047-0363

R. Chowdhury	(CRM) : Conceptual Framework and Developing a Model		Business and Information Technology (IJBIT)		
Dr. Suman Kumar Dawn & M. M. Dutta	Mergers and Acquisition in Indian Banks after Liberalization : An Analysis	Vol.III, Issue 1, January 2012	Indian Journal of Commerce & Management Studies:	National	ISSN 2249-0310
Dr. Suman Kumar Dawn & A. Sanyal	Determinants of Employees Job Satisfaction : A Study on Eveready Industries Limited”	vol.2, Issues 12 , December 2011	Asia Pacific Journal of Research in Business Management (APRJRBM)	International	ISSN: 2229-4104
Dr. Suman Kumar Dawn & S.Pal	Medical Tourism in India: Issues, Opportunities and Designing Strategies for Growth and Development	Vol.1, Issue, 3, July 2011	Zenith International Journal of Multidisciplinary Research	International	ISSN No: 2231-5780
Dr. Suman Kumar Dawn & Prof. T. K. Bose	Green Marketing for Sustainable development: Issues, Challenges and Strategies in Indian and Global Perspectives	December 2011	Kindler, Journal of Army Institute of Management	National	ISSN 0973-0486
Dr. Suman Kumar Dawn & U. Kar	E-tailing in India: its issues, opportunities and effective strategies for growth and development	Vol. 01, Issue - 03, July 2011, pp. 101-115	Zenith International Journal Of Multidisciplinary Research	International	ISSN: 2231-5780
Dr. Suman Kumar Dawn & U. Kar	Personalised Marketing: Concepts and Framework	December 26-27, 2012	National Seminar on “Service Sector in India - Its Dimensions and Emerging Issues”	National	NA
Dr. Suman Kumar Dawn & S. Biswas	Employer branding: A new strategic dimension of Indian corporations	vol. 1, no.1, 2011	Asian Journal of Management Research	International	ISSN 2229-3795
Dr. Suman Kumar Dawn & S. Pal	Marketing OTC Pharmaceutical Products: An Analysis on Customers’ Attitudes	vol.-11, No.4, Oct-Dec.2011	Siddhant Journal	National	
Dr. Suman Kumar Dawn	Understanding Effective Promotional Strategies in an MNC : A Case Study	January 2012	Arth Anvesan	National	
Dr. Suman Kumar Dawn	“Developing Distribution Strategies for Effective Business Operations: An Empirical Study based on Tropicana	29-31st January 2009	International conference on “Achieving Excellence in Business Organisations: Issues and Challenges”, held at The University of Burdwan	International	
Dr. Suman Kumar Dawn	E-Commerce: A New Realm for Indian Industries: Its Challenges and Opportunities	January 30-31, 2010	Attended and presented paper in the International Conference at Prestige Institute of Management and research (PIMR), Indore	International	
Dr. Suman Kumar Dawn	Ecotourism in West Bengal: Problems, Opportunities and Developing Effective Strategies to Promote Ecotourism	January 13-14 2011	Attended the International Conference of IISWBM , Kolkata	International	

Dr. Suman Kumar Dawn	Employer Branding: A New Strategic Dimension of Indian Corporations	February 26 <sup>th</sup> 2011	Attended the International Conference at Jyotirmoy School of Business, Kolkata. The theme of the International Conference was on People Management: Issues & Challenges.	International	
Dr. Suman Kumar Dawn	Building Corporate Branding Through Corporate Social Responsibility: A Study on Some Selected Indian Companies	10 <sup>th</sup> & 11 <sup>th</sup> January 2012	Attended and presented research paper in the International Conference (IBAMI-2012), organized by Dr. B.C. Roy Engineering College, Durgapur	International	
Dr. Suman Kumar Dawn	FDI in Indian Retail Sector: A Critical Analysis	22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	Attended and presented paper in the National Seminar organized by the Department of Business Administration, Kalyani University on 22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	National	
Dr. Suman Kumar Dawn	Relevance of Talent Management in Organizations: A Strategic Approach	22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	Attended and presented paper in the National Seminar organized by the Department of Business Administration, Kalyani University on 22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	National	
Dr. Suman Kumar Dawn	Rural Consumerism in India: Challenges and Perspective	December 15-16, 2010	Attended and presented paper the National Seminar on Rural Consumers in Globalizing Market Vulnerability and Choice organized by Department of Sociology University of Kalyani in association with Centre for Consumer Studies Indian Institute of Public Administration New Delhi	National	

Author	Title of the Paper	Detail of Paper	Nature of Paper	Level	ISBN No/ISSN No.	Journal Impact factor/SCI Index No.	Year of Publication
S Pal & S.K. Dawn	Marketing OTC Pharmaceutical Products: An Analysis on Customers' Attitudes	vol.-11, No.4	Journal – Siddhant-A Journal of Decision Making	National	Print ISSN : 2231-0649. Online ISSN : 2231-0657.		October - December 2011  <i>Online published on 25 May, 2012.</i>
S.Pal & S. Chakroborty	How students perceive professional courses with special reference to part Time and full time courses in Kolkata and its suburbs”, Review of Professional Management,	vol-11, issue-1	Journal-Review of Professional Management, A journal of New Delhi Institute of Management	National	ISSN: 0972-8686		Jan-June,2013
S.Pal & S. Chakroborty	Students' Perception about Professional Courses: A study in Kolkata and its Suburbs	Vol.VI, Issue 2	Journal -ASBM Journal of Management,Or issa	National	ISSN-0974-8512		July,2013
S.Pal & S. Chakroborty	An Empirical Study: Students' Attitude and Perception about Professional courses with special reference to Part Time and Full Time Courses in Kolkata and its suburbs	-	National Seminar Seminar on Advancement in Management and Related Issues Organized by Department of Business Administration, University of Kalyani	National			November 22-23, 2012

Authors	Title of the Paper	Detail of Paper	Nature of Paper	Level	Journal Impact No./SCI Index/ISBN No./ISSN No.
Mrinal Kanti Das	Factors Affecting Brand Value of Bharti Airtel and Customers' Perception towards Selected Telecom Service Providers: An Empirical Study	Vol. 1, Issue 1, June 2012, pp. 122-139	Journal- SIT Journal of Management	National	ISSN: 2278-9111
Dr. Isita Lahiri Jointly With Mrinal Kanti Das	MLM Vs NON-MLM Brands: Attitudinal Evaluation through Customers' Eye	Journal- Volume 5, Issue 2, (April 2012 - September 12) pp. 69-75.	Journal- International Journal of Business Insights and Transformation (IJBIT)	International	ISSN: 0974-5874

Authors	Title of the Paper	Detail of Paper (including Vol., Issue, Page No. & Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/ International	Journal Impact No./SCI Index/ISBN No./ISSN No.
UttiyaKar jointly with Dr. Suman Kumar Dawn	<i>Personalised Marketing: Concepts and Framework</i>	December 26-27, 2012	<i>National Seminar on "Service Sector in India - Its Dimensions and Emerging Issues"</i>	National	NA
UttiyaKar jointly with SubhadipSaha	<i>Initiation and Sustenance of Business in India: Issues, Concerns, and future</i>	Vol. VI, No. 1, July-December 2012	Journal- JIS Management Vista	National	ISSN: 0974-0872

Authors	Title of the Paper	Detail of Paper	Nature of Paper	Level	Journal Impact No./SCI Index/ISBN No./ISSN No.
Dr. Suman Kumar Dawn & Avik Sanyal	FDI in Indian Retail Sector: A Critical Analysis	22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	Attended and presented paper in the National Seminar organized by the Department of Business Administration, Kalyani University on 22 <sup>nd</sup> & 23 <sup>rd</sup> November 2012	National	
Avik Sanyal & Subhajit Basu Chowdhury	Services Marketing: Opportunities & Challenges	December 26-27, 2012	Attended and presented paper in the National Seminar organized by the Department of Business Administration, Haldia Institute of Technology on 26th & 27th December 2012	National	
Avik Sanyal	Performance Appraisal: A detailed analysis on the most effective way to retain personnel	Published in Vol: VII No:1 January-June 2013)	JIS Management Vista (JIS Management Journal)	National	ISSN : 0974-0872
Avik Sanyal & Subhadip Saha	Conflict at Work: Industrial Disputes	April 27-28, 2012	Attended and presented paper in the National Seminar organized by the Centre for Management Studies, on April 27-28, 2012	National	