



# **JIS College Engineering Annual**

## **Quality Assurance Report**

*Submitted to National Assessment and Accreditation  
Council*

Year 2011-2012

# JIS COLLEGE OF ENGINEERING



## ANNUAL QUALITY ASSURANCE REPORT 2011-12

### PART -A

#### Academic Plan for the Year 2011-12

The academic year 2011-12 commenced immediately after summer vacation on July1, 2011. The running batches i.e for 2<sup>nd</sup> yr, 3<sup>rd</sup> yr, and 4<sup>th</sup> yr started. The 1<sup>st</sup> year classes commenced after some time i.e. August 2011.

The Principal called a meeting of the HOD's and members of the Academic Committee to finalize the academic and other programmes which are relevant and consistent with the IQAC's focus area and suggestion for quality improvement.

The action plan for 2011-12 in respect to the criteria was as under:

#### ❖ CURRICULAR ASPECT

##### ➤ Value Addition Programme

- ✚ Review of the topics covered in the WBUT syllabus and curriculum. The student feedback about these aspects required. The opinion of the other stake holders like guardians, Alumni association required.
- ✚ Extracurricular and Co-curricular activities
- ✚ Introduction of NSS and NCC as compulsory subject with credit point.
- ✚ Student feedback for assessment of the faculties.
- ✚ PhD registration of the faculties
- ✚ Organizing one International Conference on computer science.
- ✚ Invitation to SES from Germany and Plum from Netherland for development of new programmes and change in curriculum.
- ✚ Green Campus Programme
- ✚ Women Cell
- ✚ Mentoring system

IQAC shall be requested to start an Academic audit and evolve some mechanism for improvement.

➤ Quality improvement of the existing programmes.

- ✚ Remedial Classes to be conducted more vigorously.
- ✚ GATE, JECA, MAT coaching
- ✚ Communicative English Language proficiency of the students to be developed.
- ✚ CAD training programme.

➤ Interdisciplinary Programmes

Seminars, both national international and subject knowledge enhancement are made through invited talks by experts in the respective fields by the Departments and Cells in the college.

➤ Teaching –Learning Process and Evaluation

✚ **Curriculum Revision**

The departments considered the curriculum and syllabus of the B.Tech courses in the respective streams. The number of credit hours and credit points allotted to each credit hour from 1<sup>st</sup> year to 4<sup>th</sup> year considered the number of Credit allotted 215 in 298 credit hours. The departments will compare the credits with some leading Universities in USA i.e MIT, VTU and IIT's in India.

- ✚ The continuous evaluation system of students by the respective faculties implemented. The system of such evaluation per week expected to be made by the faculties. Students' feedback is required for further improvement.

➤ Evaluation of Teachers by students

On line students feedback are made and reported to the principal and necessary action takes.

➤ Internal Academic Audit

Internal academic audit is made by some experts in each department. The report submitted to the Principal.

➤ Learner Centric Teaching

Learner centric teaching involves the students. In this regard the students should be involved in framing the curriculum and syllabus. So students' feedback for the syllabus and curriculum should be taken. The departments are taking these feedbacks from the students.

Another important aspect, the departments are involved in about the project area and case study etc. As per IQAC's focuses area the project work involves the data collection, journal

consultation, analysis of data and report writing. All the departments are following the guidelines of IQAC and project work done.

The survey work and case studies are done for the management students for the project work.

Assignments to the student and practical work have been taken regularly by the students.

#### ➤ Human Resource Development Training for faculties

Faculties are trained to develop special skill in teaching. The departments have organized training programme under QIP and FDP for their faculties, in these training both subject wise and industrial application are considered.

#### ➤ Mentoring

The students of JISCE are of mixed composition both in cultural, habit and financial aspect. They are also from the States of Bihar, Jharkhand, Tripura as well as from UP, Punjab and others besides West Bengal. The student faces tough time to adjust themselves in this mixed situation.

The mentorship system introduced 2008-09 is running with the objective to counsel the students in their difficult time. In the academic year 2011-12 the departments are very serious about the mentorship. The faculties who are appointed as mentor advised the students in different time particularly about the class work, project and soft skill, Mentors organizes the students fest to forge an alliance between them and to bond them as students of JISCE.

#### ➤ Teachers Training

The teachers are encouraged to train themselves regarding the way of teaching. The use of modern teaching aids like use of power point presentation in class room teaching are encouraged. So the construction of smart class room are recommended for each department.

The domain knowledge of teachers increased by participating in seminars, conference and workshop organized by NITTTR and Universities.

#### ➤ Research Consultancy and Extension

The thrust area of the college is the Research activity, use of their knowledge in consultancy and extension work to fulfill the social obligation.

For this a Research & Development Committee formed in 2009-10 made some recommendation to the management. It was suggested to give additional increment for research work, allow attending conferences, seminars, presentation of research work at different conferences etc. It has been decided to include the students in Research work through the projects. Students are allowed to publish papers and college bearded all cost of their project work, publication etc. The students are to present their research work before the faculties.

Regarding consultancy service the faculties are encouraged to do the consultancy work. A report is made by a committee consisting of the principal and two HODs about the Royalty and payment to the consultants.

Faculties are encouraged for innovation and patenting. The college takes up all financial liabilities for this.

Extension work is carried out by the students in the areas surrounding the college regarding environment, good habits, use of electronic instruments and computers.

#### ➤ Infrastructure and Learning Resources

- ✚ The 125 KVA DG set up and power back up as synchronized power system to be installed.
- ✚ The water supply from the Municipality is not sufficient. Hence new boring is made to get underground water.
- ✚ A new building for MBA, BBA classes is constructed.
- ✚ NSS students are taking part in campus forestation and making the campus greener.
- ✚ More computers are purchased.
- ✚ Lab equipments are purchased as recommended by the University for Revised Syllabus.

#### ➤ Governance

The departmental committees discuss and suggest the quality improvement to the Principal. The academic committee discusses the suggestions of the departmental committees and recommends these to IQAC and to BOG for resolutions.

The BOG resolved on the issues like the budget for the year and allocation of funds.

The different committee like Sports committee, Fest committee, Grievance Redressal Committee, Anti ragging Committee meets, resolves and send its report to the Academic Committee. The training of the staff and faculties are made.

#### ➤ Innovative Practices

- ✚ The present mentoring system to be continued.
- ✚ The rainwater harvesting system to be reviewed and suggestion made.
- ✚ Solar energy use for the gardening and other system to be made.
- ✚ NCC to be introduced at curricular level.
- ✚ Students are to be trained for green campus.

## PART B

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

#### a) Curricular activities

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

#### Results of University Final Examination for 2012 Pass-Out Batch

PASSING YEAR	STREAM	NO. OF STUDENTS' APPEARED	PASSED	FIRST CLASS	PERCENTAGE OF PASS
2012	CSE	125	125	125	100
	IT	92	92	92	100
	ECE	125	125	123	100
	EIE	62	62	60	100
	EE	99	99	99	100
	BME	58	57	57	98.28
	M.TECH-MCNT	15	15	15	100
	M.TECH-EDPS	15	15	15	100
	M.TECH-SE-IT	16	16	16	100
	M.TECH-CSE	16	16	16	100
	MCA	47	45	45	95.74
	BCA	23	23	23	100
	MBA	37	34	27	91.89
	BBAH	22	20	13	90.91

#### b) Value addition programmes

1. The JISCE is in the process of being registered Vocational Training Provider and awaiting Approval under Vocational Training Provider Scheme, Govt of WB for short term courses.
2. Addition of one B.Tech. Course [CE]
3. Addition of two M.Tech Courses [AEIE & BMI]
4. Dept. of Computer Science and Engineering
  - A. Add on Training on E-business, Basic Computer Architecture and Networking, Advance Training on Data Security.
  - B. Communication and Soft Skill.
  - C. Conducts training to all departments on basic office software and computer operations.

5. 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.
6. Initiates 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 Continuous Evaluation Track Book has been designed for faculty members to keep track of the. 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 being implemented 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 08.09.2011 & 09.09.2011 and the second test was conducted between 09.11.2011 & 11.11.2011 and during EVEN Semester dates were 13.03.2012 & 01.03.2012 and 02.05.2012 & 03.05.2012. **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

Mentorship programme has been an integral part of the academic process and over the years it has transformed itself into a dynamic and robust system to assist and develop. The entire student community from the first year is divided in small groups of 15. 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. The tracking system 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	Department Organized	Level	Speaker Invited	Sponsored by
12.04.2012	Workshop on “Basic Manufacturing Process “	Mechanical Engg. Dept. in collaboration with the Institute of Indian Foundrymen, Kolkata Chapter		Prof. G. Sutradhar, Dept. of Mechanical Engg. JU	
30.03.2012 to 31.03.012	Seminar on “Sustainable Business Growth and Modern Management”	MBA	National	Prof N Das IBS Hyderabad Mr S Moitra Regional Head NASSCOM	AICTE
06.03.2012	Seminar Lecture on “ Risk Management” & Musical performance “ Asian Classical Crossover” by T.F.Hoffman	MBA	Departmental	T.M.Hoffman	JIS Group
24/02/2012 To 25/02/2012	Conference on “ Synthesis To Characterization & Simulation in Nano Science & Nano Technology”	Physics & Chemistry	National	1. Prof. Amitava Patra, IACS, Kolkata 2. Prof. Debabrata Chakraborty, C.U. 3. Prof. D. Jana, C.U. 4. Dr. Ambarish Sanyal, Scientist, CSIR 5. Dr. Swati Dey, KU 6. Dr. Joydeep Bhattacharjee, NISER, Bhubaneswar 7. Prof. Dipankar Chattopadhyay, CU 8. Prof. Priyodarshi De, IISER, Kokata	AICTE & JISCE
06.02.2012 to 10.02.2012	FDP: Mission 10X Learning Approach	JIS College of Engineering			JISCE

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

Dr Biswarup Negoi	ECE Department
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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. The following clubs are formed- *Computer Society, Mathematics Club, Art & Literary Club, Photography Club, Music Club, National Service Scheme Club, Department of Sports, Environmental Education Society, Community Connect, Engineering Modeling Club, Science Club.*

### ➤ WOMEN'S CELL

The Grievance Redressal Cell was formed during 28.3.2008 and it was restructured with induction of new members under the Chairmanship of Mrs. S S Ghosh the Woman Cell started orking. 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 2011-2012**

- ✚ Seminar titled “Women Rights and Privileges” was conducted on 17 September 2011 Awareness Campaign to “Save Girl Child” during september2011 in the college and local area was conducted.

- ✚ Seminar on **“Role and Status of Woman in the Society”** was conducted at **B.C.Roy Auditorium of JIS College of Engineering.**

### ➤ **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.

Glimpse of the Topics:

<b>Topic</b>	<b>Name of the Speaker</b>	<b>Affiliations</b>
On Education and Learning	Dr A Guha	Director
Building Technical Aptitude	Mr Somesh Dasgupta	DSPSL
Mathematical Aptitude	Mr. Moley Ghosh	Industry Expert
Modern Industry Trends and Technological Research Frontiers	Mr Sourav Dutta	IBM Kolkata

### ➤ **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 72.9 % 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 53 recruitment drives were conducted during the 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.

## ➤ **Alumni Association**

JISCE has an effective Alumni Association which. 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. The alumni members facilitate the academic process by organizing guest lectures and project works for the students.

### **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. Career guidance classes, orientation programmes and interdisciplinary seminar Sessions are arranged.
2. Remedial coaching classes are provided to slow learners.
3. Foundation course in Tally, Personality Development, and Computer Awareness Course.
4. Coaching classes for competitive exams and for entry in service for advanced learners.
5. Special coaching is given to PG students for UGC/CSIR test.
6. Coaching is given for GATE, JECA, CET, MAT examinations.
7. 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 July 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 – 2  
Number of students qualified for GATE- 33

## 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

## 8. Initiatives towards Staff Faculty Development:

- JIS Group sponsored (INR 31K) sponsored 4-day Workshops on Recent Trends in Computing (RTC) organized by IT/ CSE / CA Dept, 23rd-26th March, 2011
- AICTE funded (INR 1.5 Lacs) National Conference (cfp) on Biomedical Energy Reserve and Application (BERA) organized by BME Dept, 29th -30th July, 2011
- JIS Group sponsored (INR 12K) sponsored 2-day Workshops on Web based Courseware Development organized by CA Dept, 4th -5th August, 2011
- AICTE funded (INR 1.5 Lacs) National Conference (cfp) on Energy System Planning Implementation and Operations (ESPIO) organized by EE Dept., 19th Aug. 2011.
- JIS Group funded (INR 10K) Seminar on Frontiers of Knowledge Management organized by Department of Business Administration.

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

## 10. Research projects (On Going)

Title of the Project/ Purpose of grant-in-aid	Sanctioned Amount	Sanctioned by	Project Submitted by
Machine Intelligence under MODROB	Rs. 11,00000/-	AICTE	Dept. of CSE
Development of Compact, Broadband and Efficient Patch Antennas for Mobile Communication under RPS Scheme	Rs. 5,00000/-	AICTE	Dept. of ECE
Modernization of Power Systems Lab. under MODROB	Rs. 8,45,000/-	AICTE	Dept. of EE
Implementation of IIPC project under IIPC: Plant Grant	Rs. 8,00000/-	AICTE	JISCE
Implementation of EDC project under EDC: Plant Grant	Rs. 6,92,000/-	AICTE	JISCE
Seminar Grant	Rs. 37,500/-	AICTE	Dept. IT
Seminar Grant	Rs. 30,000/-	AICTE	Dept. EIE
Seminar Grant	Rs. 1,50,000/-	AICTE	Dept. of EE
Seminar Grant	Rs. 1,50,000/-	AICTE	Dept. of BME

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

Type of Sponsorship	Name of the Project/ Seminar	Amount	Funding Agency	Sponsored to	Letter No.
Research Project under DST Fast Track	"In Silico design of novel molecular rectifier and spin filter through nonequilibrium Green's function technique"	Rs. 4,20,000/-	DST	Dept. of Physics(Dr. Sabyasachi Sen)	SR/FTP/PS-85/2009 DT. 27.01.2012
Research Project under ICSSR	"Ecotourism & Environmental Sustainability: A Study on West Bengal "	Rs. 4,89,125/-	ICSSR	Dept. of BA(Dr. Suman Kr. Dwan)	2-154/2010-RP Dt. 25.01.2011
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

**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

- ✚ Mr Soham Sengupta gave consultancy to touchstone Tie up Private Limited (June 2011 to May, 2012)
- ✚ Mr Soham Sengupta gave consultancy to Yotto Labs, (Dec 2011 to March 2012)
- ✚ Mr. Rajdeep Chowdhury is Awarded Gold Certificate in Infosys

### Invited Talks /Chairs

- ✚ Somsubhra Gupta delivered invited talk in two successive sessions 2010 and 2011 at Domkal Engineering College Seminar "Tech Science Trend today".

## 16. Internal Resources generated

During the year from different sources an amount of Rs.307081/- internal resource had been generated.

## 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 will be made mandatory for all students starting from 2013 to opt for either NCC or NSS.

### **National Cadet Core (NCC)**


JIS College of Engineering has applied to impart NCC as an Elective Subject. 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.

### **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.

#### **Anti-Drug Campaign**

The NSS wing organized a camp **on ANTI-DRUG** from 9th April 2012. 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.

 **Campus Cleaning Programme conducted on 20.10.11**

 **Slum Area Development Programme conducted on 5.10.2011.**

 **Campus Plantation Programme conducted on 27.9.2011.**

#### **Awareness Programme**

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

#### **Adult & Children Education Programme.**

The college has visited 5 villages around and conducted the programme starting from 19.9.2012.


#### **Blood Group Identification Camp**

The blood group identification camp for the college students was organized on 13th, 19th March 2012.

**19. Number of teachers newly recruited: 25**

**20. Teaching-non teaching staff ratio : 2.45:1**

### **21. Improvement in Library Services**

 A Digital System for Library with separate space allocation has been planned and titles have been started to put in the digital systems. The Digital Library System will run on D Space software which is an integrated system of 25 terminals

- connected together through an independent LAN with a connectivity of 50 MBPS.
- ✚ Various Books, VIDEO Lectures, around E Books, University Questions Papers, Research Publications, NPTEL VIDEOS will be available.
- ✚ A new block for Book Bank will be created.
- ✚ Book bank Provide 5 books to the students for 6 months per semester.
- ✚ A study center for IEEE E-Journals to be established.
- ✚ 11,000 new books have been added under 1800 Titles.

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

20,500 new books were purchased during 2011-12 and the cost was Rupees 28, 30,927.00/-. The number of journals subscribed during 2011-12 were 108 print journal and 189 IEEE E-Journals and the cost for the same was Rupees 15, 77829.00/-.

## **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. 72761355.00 + Rs. 72579703.00 = Rs. 145341058.00

Total Number of Students= 3293

Unit Cost = Rs. 44136.37 per student per year

Unit Cost = Rs. 120.92 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 including Biometric system for attendance tracking.

### **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 under



process, 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).

## **27. Technology Up-gradation**

- The college has procured the following software: ORACLE 11G, TALLY 9 Multiuser, Tanner Tools (Pro), Mentor Graphics Tools for 20 user, XILINX based HDL simulator, CAD-CAM Pro E, ORELL Digital Language Lab for 61 user, QWAL NET, MATLAB for EE & ECE etc.
- 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 Reliance and local cable internet providers.
- 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.

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

- The entire campus is being made Wi-Fi enabled with high speed connectivity for all students and staffs and the job is in progress.
- 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.
- 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 11-12, seven students' have been provided full free ship and twenty two 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 ever proliferating alumni association is a matter of pride for the college. 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 5<sup>th</sup> annual sports meet 2013 of JISCE was held 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.
- b) The college conducts annual sports competitions on Football, Cricket, Carom and Chess for the students.
- c) The college was champion during February-March 2012 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.

### **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 and Faculty achievements.**

□ 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.

□ Mr. Saikat Ghosh, Student, Department of Computer Application and Mr. Rajdeep Chowdhury, Assistant Professor, 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 in association with Calcutta Institute of Engineering and Management, Kolkata.

□ 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

❖ Engineering College Academic Meet 2012, held on 30th and 31st March, 2012, organized by Forum of Scientists, Engineers and Technologists in association with Calcutta Institute of Engineering and Management, Kolkata.

□ Mr. Chanchal Rungta, Student, Department of Electronics and Instrumentation Engineering was selected as the Campus Brand Ambassador of JIS College of Engineering, Kalyani, representing the college at the National Level Conclave "Xperience Cognizant '12", held during 17th to 19th February, 2012, organized by Cognizant, in Chennai.

□ Mr. Arkya Mukherjee, Student, Department of Electronics and Instrumentation Engineering won the Japanese Language Quiz Contest, held on 6th August, 2011 and were awarded scholarship for visiting Japan in June, 2012.

❖ Mr. Mukherjee visited Japan during 11th June to 20th June, 2012, under the JENESYS (Japan East Asia Network for Exchanging Students and Youths) Program, in lieu with the invitation from the Government of Japan for the aforesaid scholarship program.

□ Mr. Abhinav Biswas, Student, Department of Computer Science and Engineering become IBM Blue Scholar in 2011.

A Blue Scholar Certificate is awarded to those students who have at least two IBM Software Professional Certifications and who have also participated in The Great Mind Challenge Contest.

**Faculty Achievement :****Mr. Rajdeep Chowdhury is conferred with Certificate of Recognition by Infosys Ltd.**

Mr. Rajdeep Chowdhury, Asst. Professor, Dept. of Computer Application is conferred with Certificate of Recognition in recognition of his outstanding contribution to Infosys Campus Connect Program during April, 2011 to March, 2012.

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, Asst. Professor, Dept. of Computer Application, 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 Book Rack. Mr. Rajdeep Chowdhury, 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, Asst. Professor, Dept. of Computer Application, 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, Asst. Professor, 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. Rajdeep Chowdhury and Mr. Pratip Kumar Biswas win 2nd Prize in the Regional Student Convention 2011**

Mr. Rajdeep Chowdhury, Asst. Professor, Dept. of Computer Application and Mr. Pratip Kumar Biswas, Student, Department of Computer Application were awarded 2nd Prize for their Paper titled “Tri-Pad 24x7 – An Overview” in the Regional Student Convention 2011, held on 25th February, 2011, organized by Computer Society of India, Kolkata Chapter at Platinum Jubilee Building Auditorium, Indian Statistical Institute, Kolkata. Amongst the awarded prizes, other than Certificate of Merit, there was Cash Prize worth of Rs. 2000 /-.

### **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 & 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.

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 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 under MSDN Programme
- He college is actively rolling out Infosys Campus Connect Programme
- The institute has close association with Oracle ,Wipro, IBM
- MOU in progress (a) M/s Neo Teletronix Pvt Ltd, 117, Mishra Para lane, Rajpur, Kol-7000149. Head Office: 6/7, Bijaygarh, Kol-32.
- The college has a tie up with MSME for Entrepreneurship Development.

#### **41. Anti Ragging Committee**

The college from very beginning has developed a very transparent and strict policy regarding Ragging. Any such activities have been declared banned in and around the campus and hostels. As per the AICTE norms the committee is represented by all stakeholders and local administrative authorities headed by Principal. Every a task force is made to keep a strict vigil on the issues and monitor fresh batch students activities closely and ensuring a healthy academic ambience. Different initiatives undertaken by NSS, SLC to promote a ragging free campus concept are conducted round the year.

#### **42. Any other relevant information, 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 ensure and enhance students' performance in the semester examinations.
➤ Adding on short term value addition courses under different departments. Also to start acting as a registered Vocational Training Provider under Vocational Training Provider Scheme, Govt of WB
➤ Improve infrastructure of all the departments.
➤ To continue and develop the Continuous Evaluation System.
➤ Encourage teachers to take up Ph.D degree and Research Projects.
➤ To develop and nurture Mentorship Programme for all students across departments.
➤ To organize more seminars in association with UGC, TEQIP & AICTE.
➤ To organize an International Conference on Information Technology.
➤ To develop and impart Student Life Center and promoting co-curricular club activities.
➤ Making the Woman Cell as an effective and fully functioning body of the college.
➤ Introduce Induction Programme for all first year students.
➤ 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.
➤ Stress on Career Guidance and placement Cell and Entrepreneurship Development Cell.
➤ 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.
➤ The Alumni Association to be registered and its activities to be strengthened.
➤ Human Resource Development Training for students (HRD Training)
➤ Staff Training programmes will be organized periodically to train the staff in ICT based teaching
➤ Master degree courses to be started in Mechanical Engineering and Nanoscience & Technology.
➤ The Internet facility to be upgraded and the campus will be made Wi-Fi enabled.
➤ To develop Digital Library and the book numbers to be increased with better facility for Book Bank.
➤ Coaching courses to be continued for GATE, JECA, CET, MAT examinations
➤ Faculty members to be motivated to apply for patents.
➤ NCC & NSS to be incorporated into the curriculum.
➤ Linkage to be developed with National/ International Academic/ Research bodies.

Signature  
Chairman, IQAC  
JIS College of Engineering

Signature  
IQAC, Coordinator  
JIS College of Engineering

**JIS College of Engineering**  
**List of Publications 2011-12**

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.	Year of Publication
Nilotpal Manna	Data Compression of Biomedical Signals	page no. 77-84	National Conference paper.	National BERA 2011, JISCE,.			July 2011
,Dibyendu Mandal, Karabi Ganguly, Nilotpal Manna	Cough Monitoring System,	page no. 23-27.	National Seminar	National Seminar BERA 2011			July,2011
Shiny Ganguly, Partha Pratim Bhattacharya, Nilotpal Manna, Karabi Ganguly,	Low Cost Temperature Monitoring System, National Seminar BERA 2011, JISCE, page no. 46-51.	page no. 46-51.	National Seminar	National Seminar BERA 2011, JISCE,			July,2011
Nilotpal Manna Arijit Saha	Digital Principles and Logic Design,		Book	Infinity Science Press, USA	ISBN-9781934015032		
Nilotpal Manna Arijit Saha	Optoelectronics and Optical Communication		Book	University Science Press, New Delhi.	ISBN-9789381159064		2011
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			January 2012
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 on RENEWABLE ENERGY RESOURCES & Management, the ultimate source of survival, RAJASTHAN ,16 th to 18 th MARCH,2012	International Conference/Journal(Centum)	ISSN 2231-1475..		MARCH, 2012
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			March ,2012



Nilotpal Manna Arijit Saha	Digital Principles and Logic Design,		Book	Infinity Science Press, USA	ISBN-9781934015032		
Nilotpal Manna Arijit Saha	Optoelectronics and Optical Communication		Book	University Science Press, New Delhi.	ISBN-9789381159064		2011
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 & Management" held in Bengal Institute of Technology & Management, Santiniketan, Birbhum WB			January 2012
Madhura Chakraborty, Arnab Ghosh, Innashree Bhadra, Sovan Pal	"Low cost Semi automatic water collecting car: a model Based approach	PG:15.	International Conference proceedings on RENEWABLE ENERGY RESOURCES and Management, the ultimate source of survival, RAJASTHAN ,16 th to 18 th MARCH,2012	International Conference/Journal(Centum)	ISSN 2231-1475..		MARCH, 2012
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			March ,2012

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.	Year of Publication
Hiranmay Dasgupta <sup>1</sup> , Kalimuddin Mondal <sup>2</sup> , Madhura Chakraborty <sup>3</sup> , Dev malya Banerjee <sup>4</sup> , Mahuya Das ,Sucharita Chakraborty	"Wiener Index and It's Application in Chemical Graph Theory as a Modeling Tool	Pg:167-170.	National conference BERA 2011, in JISCE ,Klayani,Nadia,( AICTE sponsored)	National seminar			July, 2011
S. Chakraborty, Susmita Das, A. Nag,	DESIGN AND SIMULATION APPROACH	Volume 2, Issue 12	International Journal of Scientific and	International	ISSN2 250-3153		December 2012

J. K. Ray, S. Bhattacharjee, Dr. B. Neogi	INTRODUCED TO ECG PEAK DETECTION WITH STUDY ON DIFFERENT CARDIOVASC ULAR DISEASES		Research Publications				
Susmita Das, J. K. Ray, S. Bhattacharjee, Dr. B. Neogi	STUDY on DIFFERENT TUNING APPROACH with INCORPORAT ION of SIMULATION ASPECT for Z- N (ZIEGLER- NICHOLS) RULES	Volume 2, Issue 8	International Journal of Scientific and Research Publications	Internation al	ISSN 2250- 3153		August 2012

Author (Including Co- author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No.	Nature of Paper (Journal/Conference/B ook Chapter)	National/Intern ational	ISBN No/ISSN No.	Journal Impact factor/SC I Index No.	Year of Publicat ion
Rimi Ghosh, A Chatterjee, P samadar, A Pattyanak, D.Sarkar ,P.P.Sarkar	Frequency Selective surfaces: Some Modifications for Compactness and Bandwidth Enhancement		National Conference paper on Computers, Communication & Controls-11 (N4C11) 29th,30 <sup>th</sup> , Compactness and Bandwidth Enhancement. April 2011	National Conference paper			April 2011.
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		2012
Rimi Ghosh, A Chatterjee, P samadar, A Pattyanak, D.Sarkar ,P.P.Sarkar	Theoretical Investigation on Reduction of Resonant Fre quency of a Frequency Selective Surface by Varying the Periodicity between Adjacent Patches.		National Conference paper on Computers, Communication & Controls-11 (N4C11) April 2011	National Conference paper			29th,30 <sup>t</sup> h April 2011
Rimi Ghosh D.Sarkar ,P.P.Sarkar	“Dual Broad band Frequency selective Structures	Volume 3 Issue 1 (2012),	International Journal of Electronics and Communication Technology(IJECT).	International Journal	ISSN 2230- 7109,		(2012),

	with multi resonant frequencies						
Rimi Ghosh D.Sarkar ,P.P.Sarkar	Patch type FSS with Gridded Rectangular Loop.	page 81-82.	International Conference on Engineering Education in the Century (E2NC-2012).	International Conference			2012
Rimi Ghosh, A Chatterjee, D.Sarkar ,P.P.Sarkar	Theoretical Investigation on Size Reduction of a Frequency Selective Surface by cutting S Slot on Rectangular Patches.	Page-25-26.	IEEE EDS Student Paper Conference 2011,	IEEE EDS Student Paper Conference 2011			2011,

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/S CI Index No.	Year of Publication
Vivek Kundu, Amab Mitra, Devmalya Banerjee	Silicon Technology in Smart Sensor		3rd ALL INDIA ACADEMIC MEET-2012 organized by Forum of Scientists, Engineers & Technologists (FOSET)	National			30th – 31st March, 2012.
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			30th – 31st March, 2012
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			30th – 31st March, 2012.
Devmalya Banerjee, Nilotpal Haldar, Kishore Ghosh, Sukanya Jana	An Automated Scheme for Precision Agriculture through Data Acquisition and Monitoring System using Multiple Sensors Network		2nd National Conference-Computing, Communication and Sensor Network” CCSN- 2011, organized by PIET, Rourkella, Orissa	National			28–29 Oct,2011.

Authors (including Co-author)	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.
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	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	

Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/International	Journal Impact No./SCI Index/ISBN No./ISSN No.
Subhajit Basu Chowdhury & Avik Sanyal	“ Strategic Marketing in Modern Economy”	Presented on 25 <sup>th</sup> June, 2011 at Veloxian, Kolkata.	Conference paper	International	
Subhajit Basu Chowdhury	“Rural Markets and Advertising Strategies”	Presented paper on January 3-4, 2012 at School of Management and Social Science, Haldia Institute of Technology.	Conference paper	International Conference	
Subhajit Basu Chowdhury	“ Building Brands in International Market”	Published in the Edited volume of International Conference held on January 10-12, 2012 at Dr. B.C Roy Engineering College, Durgapur.	Edited volume of International Conference	International Conference	ISBN

Authors (including Co-author)	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.
Dr. Isita Lahiri Jointly With Mrinal Kanti Das	A Study on Brand Loyalty of MLM Brands	Vol. 2, Issue 4, April 2011, pp. 88-102	Journal- International Journal of Marketing and Management Research (IJMMR)	International	ISSN: 2229-6883
Mrinal Kanti Das Jointly With Mr. Souriya Meunviseth	The role of the Bank of Lao PDR in controlling Money and Forex Market	Vol. 9: Issue 1, June 2011, pp 5-13	Journal- Pragyaan	National	ISSN: 0974-5505

Mrinal Kanti Das	A Study on Life Insurance Policies in Rural Areas of West Bengal	Vol. VI, No. 2, January - June 2011, pp. 117-121	Journal- Gumbad Business Review	International	ISSN: 0973-6158
Mrinal Kanti Das	Brand Loyalty and Leveragability: An Empirical Study on some selected brands of Soap	Vol. 1, Issue 3, July 2011, pp. 162-172	Journal- ZENITH	International	ISSN: 2231-5780
Dr. Isita Lahiri Jointly With Mrinal Kanti Das	Network Marketing in Non-Metropolis: An Awaiting Destination	Vol. 16, Issue 4 (December), 2011, pp. 10-18.	Journal- JIMS8M: The Journal of Indian Management & Strategy	National	Print ISSN: 0973-9335, Online ISSN: 0973-9343
Dr. Isita Lahiri Jointly With Mrinal Kanti Das	Distributors' Inclination towards MLM Industry: An Analysis	Vol. 12, Issue 1, January-March 2012, pp. 26-37	Journal- Siddhant	National	Print ISSN : 2231-0649, Online ISSN : 2231-0657

Authors (including Co-author)	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>E-tailing in India: its issues, opportunities and effective strategies for growth and development</i>	Vol. 01, Issue- 03, July 2011, pp. 101-115	<i>Zenith International Journal Of Multidisciplinary Research</i>	International	ISSN: 2231-5780
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

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.	Year of Publication
S Pal & S.K. Dawn	Medical Tourism in India: Issues, Opportunities and Designing Strategies for Growth and Development	vol.1, Issue 3	Journal-Zenith: International Journal of Multidisciplinary Research	International	ISSN: 2231-5780		July 2011
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
S.Pal & S. Siddhanta	The challenges in establishing prerequisites and characteristic features of global brands	Volume 9 : Issue 1	Journal- Pragmaan, Journal of Management	National	ISSN No. : 0974-5505		June. 2011

S.Pal	Materials Management		SYSTECH education		ISBN: 978-81-92100-1-4		April,2011
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Authors (including Co-author)	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.
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 (APJRBM)	International	ISSN: 2229-4104
Dr. Suman Kumar Dawn & Avik Sanyal	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 (ICBAMI-2012), organized by Dr. B.C. Roy Engineering College , Durgapur	International	
Avik Sanyal & Subhajit Basu Chowdhury	Strategic Marketing in Modern Economy	25 <sup>th</sup> June, 2011	Presented at the International Conference organized by Veloxian, Bhubaneswar	International	
Avik Sanyal	Marketing: A company's key to Success	4 <sup>th</sup> & 5 <sup>th</sup> November 2011	Attended and presented paper in the International Conference organized by the IAMS on 4 <sup>th</sup> & 5 <sup>th</sup> November 2011	International	

Author (Including Co-author)	Title of the Paper	Detail of Paper (Including Vol.,Issue,Pg.No.Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/International	Journal Impact No./SCI Index/ISBN No./ISSN No.
H.Dasgupta, And S.Chakrabarty	m-Dense sets and agreement of mappings in spaces with minimal structures	Rev.Bull.Cal.Math. Soc.,19,(1) 111-114(2011)	Journal	International	ISSN-2231-5306
S. Mandal and N. C. Majee	Existence of periodic solutions for a class of Cohen-Grossberg type neural networks with neutral delays	Volume 74 Issue 6, February, 2011 Pages 1000-1007 Elsevier Science Publishers B.V. Amsterdam, The Netherlands, The Netherlands	Journal Neurocomputing	International	ISSN 09252312 Impact No. 1.580
Animesh Biswas, Debasish Majumder, Subhasis Sahu	Assessing Morningness of a Group of People by Using Fuzzy Expert System and Adaptive Neuro Fuzzy Inference Model	Control, Computation and Information Systems Communications in Computer and Information Science Volume 140, 2011, pp 47-56	Conference	International	ISSN 1865-0929
Animesh Biswas, Debasish Majumder and Subhasis Sahu	Fusion of Mamdani Fuzzy Inference System and Genetic Algorithm for Assessing Morningness	Advances in Energy Aware Computing and Communication Systems Eds.Jimson Mathew, H. Singh, Rakesh K Bajaj and Mahesh P.McGraw Hill Education.	Conference	International	ISBN-10: 9351343324.

Debasish Majumder, Joy Debnath Animesh Biswas	Risk analysis in construction sites using fuzzy reasoning and fuzzy analytic hierarchy process	PROCEDIA TECHNOLOGY, ELSEVIER	Conference	International	
Santanu Mandal, Rupak Bhattacharjee and Debasish Majumder	Stability Analysis of Fuzzy Hopfield Type Neural Network with Time Varying Delays	Conference Proceedings	Conference	National	

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.	Year of Publication
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
S.Singha Roy	A simple theoretical analysis of the Einstein relation for the DMR (diffusivity-mobility ratio) in Nono compounds on the basis of k.p formalism	8093, 22	SPIE Nanomaterials	International	ISBN:97808 19487032		2011
S.Singha Roy	The theoretical study of field emission from quantum wire SLs f	PP 1-4/ DOI: 10.1109/INEC.2011.5991663	IEEE INEC 2011	International Conference	ISSN:2159-3523/ E-ISSN 978-1-4577-0377-5		2011
S.Singha Roy	The simple theoretical analysis of the specific heat capacity in nano materials	Pp 1-4/DOI: 10.1109/INEC.2011.5991778	IEEE INEC 2011	International Conference	ISSN: 2159-3523 / E-ISSN: 978-1-4577-0379-9		2011
Swagata Bhattacharjee and Abhijit Biswas	A continuous drain current model for long Ge channel double gate (DG) p MOSFETs with high-k gate dielectrics and estimation of analog circuit parameters	vol- 51, page 1105-1112	Journal	International	ISBN: 0026-2714	1.14	2011



Swagata Bhattacharjee and Abhijit Biswas	Effects of hot carriers on threshold voltage and subthreshold slope of MOS devices with different gate architectures	vol. 2 No 1, page 70 – 82	Journal	International	ISSN: 0974-9527		2011
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Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No. Year)	Nature of Paper (Journal/Conference/Book Chapter)	National/International	Journal 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, 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	
Ganguly Bhattacharjee K, Bhattacharyya M, Halder UC, Jana P, Sinha AK	The role of progesterone receptor status on maspin synthesis via nitric oxide production in neutrophils in human breast cancer. <i>Breast Cancer</i>	DOI 0.1007/s12282-012-0422-6.			1340-6868
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	
Rajib Ranjan Kundu, Priyanka Saha, Souvik Das	The Design of A Low-Cost Respiration Rate Meter Based on Infrared Sensing	March 30-31, 2012	Conference	National	
Soumi Burman, Sujana Kundu, Soumya Dutta, Souvik Das	The Design of A Low-Cost Emotional Stress Meter	March 30-31, 2012	Conference	National	
Souvik Das, Subharanjan Pal	The Design of a Low-cost Galvanic Skin Response Meter	pp. 45-49, Vol. 1, Issue II, Dec'2011	Journal	International	2230-7850
Souvik Das, D N Tibarewala	Stabilometric Postural Steadiness Analysis of Post-Stroke Hemiplegic Patients,	pp. 4626 – 4637, vol. 3 No. 6, June 2011	Journal	International	0975-5462
Sandeep Kumar Sharma, Suman Bhowmik, Souvik Das	Stabilometric Analysis of Postural Steadiness of Post-Stroke Hemiplegic Patients”	March 12-13,2011	Conference	National	

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.	Year of Publication
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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		
R. Chowdhury, S.Gupta	“Unique Grade-To-Percentage Conversion [UGPC]: An Enhanced Knowledge Infrastructure For Better Performance Evaluation” ,	Accepted for presentation in the International Conference on Frontiers of Infrastructure Finance (ICFIF) 2011, to be held on December, 2011.	Conference	International			2011
G. Majumder, S. Gupta,	“Scaling Conflict as a Rider of Organizational Output” ,	Accepted for presentation in the International Conference on Frontiers of Infrastructure Finance (ICFIF) 2011, to be held on December, 2011.	Conference	International			2011
Pranati Rakshit	A Novel Approach of Obtaining Features Using Wavelet Based Image Fusion and Harris Corner Detection”	Vol.1, Issue 2, pp-396-399	International Journal of Modern Engineering Research	International	ISSN: 2249-6645		2011
Pranati Rakshit	“A Novel Approach of Watershed Segmentation of Noisy Image Using Adaptive Wavelet Threshold	Vol. 2 (6), 2011, 2686-2690	International Journal of Computer Science and Information Technologies	International	ISSN-0975-9646		2011
Pranati Rakshit	Robust Watershed Segmentation of Noisy Image Using Wavelet”	Vol. 2 (6), 2011, 2686-2690	International Journal of Computer Science and Information Technologies	International	ISSN-0975-9646		2011

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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	ISBN : 973-93-80871-09-1		2012
Satughna Singha	Survey of Various Number Systems and Their Applications	Volume-1, Number-1, pp. 73-76, January 2010, Serials Publications, India.	International Journal of Computer Science and Communication	International	ISSN:0973-7391		2010
Satughna Singha	Theory and Applications of the Double-Base Number System Using Bases 2 and 5	Volume-1, Number-1, pp. 97-100, January 2010, Serials Publications, India.	International Journal of Computer Science and Communication	International	ISSN:0973-7391		2010
Satughna Singha	Exponential Power Calculation using Shift and Add Techniques5		National Conference on Recent Trends in Engineering & Technology including Non-Conventional Energy ( RTETNE-2010), pp. CSE & IT - 10	National			2010
Satughna Singha	A Novel Architecture of “Mixed Number System MAC UnitFor Digital Signal Processors”,	Volume-1, Number-2, September 2010, Serials Publications, India.	International Journal of Computer Science and Communication	International	ISSN:0973-7391		2010
Satughna Singha	Solution of Traveling Salesman Problem on SCX Based Selection with Performance Analysis Using Genetic Algorithm	Volume-3, Issue-8, pp. 6622-6629, August 2011, Engineering Journals Publications, India.	International Journal of Engineering Science and Technology	International	ISSN:2278-9510		2011
Satughna Singha	A New Hardware Circuit for Evaluation of Value of a Prime Number with Exponential Form	Volume-3, Issue-9, pp. 7135-7142, September 2011, Engineering Journals Publications, India.	International Journal of Engineering Science and Technology	International	ISSN:2278-9510		
Satughna Singha	A New Architecture for FPGA based	ACM SIGARCH Computer Architecture	ACM SIGARCH Computer Architecture	International	ISSN:0163-5964		2011

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Satrugghna Singha	A New Architecture for FPGA Implementation of A MAC Unit for Digital Signal Processors using Mixed Number System	ACM SIGARCH Computer Architecture News, Volume 39, Issue 5, pp. 12-18, December 2011, ACM New York, USA.	ACM SIGARCH Computer Architecture News	International	ISSN:0163- 5964		2011
Satrugghna 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
Satrugghna 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. Dharpal Singh	Performance Measurement of Neural Network Model Considering Various Membership Functions under Fuzzy Logic	Vol I, Issue II, 2010, pp1-5.	International Journal of Computer and Engineering	International	ISSN-0976-9587		2010
Mr. Dharpal Singh	Prediction Based on Statistical and Fuzzy Logic Membership Function	Vol VII issue I, Punjab, pp 86-90 , June-July 2010.	PCTE, Journal Of Computer Sciences	International	ISSN 0973-4058		2010
Mr. Dharpal Singh	Optimization of Fruit Quantity by comparison between Statistical Model and Fuzzy Logic by Bayesian Network	Vol VII issue I, Punjab, pp 91-95 , June-July 2010.	PCTE , Journal Of Computer Sciences	International	ISSN 0973-4058		2010
Mr. Dharpal Singh	Performance measurement of Soft Computing models based on Residual Analysis	Vol. V, Kurukshetra University, pp 823-832, Jan-July 2011.	International Journal for Applied Engineering and Research	International	ISSN No: 0973-4562 and Online ISSN No: 1087-1090		2011
Mr. Dharpal Singh	Performance measurement of Soft Computing models based on Residual Analysis	April 6, 7, 2011, pp 823-832.	National Conference on Converging Technologies beyond 2020,	National	CTB-2020		2011

Mr. Dharmpal Singh	A comparative study on the performance of Fuzzy Logic, Bayesian Logic and neural network towards Decision Making		International Journal of Data Analysis Techniques and Strategies (IJDATS)	International	ISSN (Online): 1755-8069 - ISSN (Print): 1755-8050, Jan-July 2011.		2011
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 Technology	International			2012
Mr. Dharmpal 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
Mr. Dharmpal Singh	Extraction of knowledge using data mining and soft computing methodology” in ACM Transaction (Communicated)			International			2012
Ira Nath	BHAPSC: A New Black Hole Attack Prevention System in Clustered MANET”,		International Journal of Advanced Research in Computer Science and Software Engineering.	International			2012
Ira Nath	WACA: A New Weighted Adaptive Clustering Algorithm for MANET	Volume 90, 2010, pp 270-283, Series, Publisher- Springer Berlin Heidelberg, Copyright Holder- Springer-Verlag Berlin Heidelberg.	Recent Trends in Networks and Communications Communications in Computer and Information Science	International	ISSN1865-0929		2012

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	An Improved Gauss-Newton's Method based Back-propagation Algorithm for Fast Convergence		International Journal of Computer Applications	International			2012
Miss Monalisa Dey(M.Tech)	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)	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	electronics version with ISBN Number : 978-81-88894-34-5 in collaboration with Benison Education , India,		2012
Miss Monalisa Dey	Achieving consensus in the presence of both node and link failure	volume 37, pp.133-137.	published in the Volume of IPCSIT Journal.in the proceedings of the 2nd International Conference on Information and Network Technology (ICINT 2012)	International	(ISSN: 2010-460X), having ISBN NUMBER : 978-981-07-2068-1		2012
Sumanta Chatterjee	A new Reduct Generation Algorithm for decision system for Datamining"		Sustainable Business Growth and Modern Management,Centre For Management Studies,JIS	International			2012

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Sainik Kumar Mahata	A novel approach for a Robot traversal in an Anonymous plane		IJCA	International			2012
Sainik Kumar Mahata	Modified Apriori Algorithm to find out association rules using tree based approach		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
Sainik Kumar Mahata	A novel approach of steganography using Hill Cipher.		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
Sainik Kumar Mahata	A novel approach for block based data encryption.		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
Sainik Kumar Mahata	A pictorial block steganography based secure algorithm for data transfer		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
Sainik Kumar Mahata	An improved approach of cryptography using triangulation and MSB iteration technique		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
Sainik Kumar Mahata	Cellular automata based consensus in the presence of node and link failure		Computing, Communication and sensor network. PIET, Rourkella. Date: 22/11/2012-23/11/2012	International			2012
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 April 2012.	International	Procedia Engineering 38 ( 2012 ) 1084		2012

Sudipta Sahana	Positional Clustering Algorithm for MANET		All India 3rd Academic meet in FOSET 2012	National			2012
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
Nilanjan Dey	A Novel Session Based Dual Steganographic Technique Using DWT and Spread Spectrum	Vol.1, Issue 1, pp-157-161	International Journal of Modern Engineering Research,	International	ISSN: 2249-6645		2011
Nilanjan Dey	A Novel Approach of Image Encoding and Hiding using Spiral Scanning and Wavelet Based Alpha-Blending Technique”,	Vol. 2 (6), 1970-1974.	International Journal of Computer Technology Applications	International	ISSN:2229-6093[Indexed at EBSCO Host]		2011
Nilanjan Dey	Robust Watershed Segmentation of Noisy Image Using Wavelet	Vol. 1(2),117-122	International Journal of Computer Science & Communication Networks	International	ISSN:2249-5789		2011
Nilanjan Dey	A Novel Approach of Multilevel Binary Image Encoding using Walsh Table and Spiral Scanning	Vol. 2 Issue 3 – 2011.	International Journal of Engineering Trends and Technology	International	ISSN: 2231-5381		2011
Nilanjan Dey	A Novel Session Based Dual Image Encoding and Hiding Technique Using DWT and Spread Spectrum	Vol. 3 No. 11, pp-3510-3517.	International Journal on Computer Science and Engineering	International	ISSN : 2229-5631[Impact Factor 0.835]		2011
Nilanjan Dey	A Novel Approach of Obtaining Features Using Wavelet Based Image Fusion and Harris Corner Detection	Vol.1, Issue 2, pp-396-399.	International Journal of Modern Engineering Research	International	ISSN: 2249-6645		2011
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	Segmentation of Noisy Image Using Adaptive Wavelet Threshold	2686-2690.	Computer Science and Information Technologies		0975-9646		
Nilanjan Dey	A Case Study of Gray Image Encoding Using GA	Vol. 3, pp-278-285.	International Journal of Emerging Trends in Engineering and Development, Issue1	International	ISSN-2249-6149[ICV 5.8]		2011
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Nilanjan Dey	A Novel Approach of Harris Corner Detection of Noisy Images Using Adaptive Wavelet Threshold	Vol. 2, Issue 4, Oct . - Dec. 2011	International Journal of Computer Science & Technology	International	ISSN : 0976-8491		2011
Nilanjan Dey	A Comparative Study between Moravec and Harris Corner Detection of Noisy Images Using Adaptive Wavelet Thresholding Technique	Vol. 2, Issue 1, Jan-Feb 2012, pp.599-606	international Journal of Engineering Research and Applications	International	ISSN: 2248-9622 [Indexed at EBSCO Host, SCOPUS]		2011
Nilanjan Dey	A Comparative Study Between Moravec and Harris Corner Using Wavelet Based Image Fusion	Volume 2, Issue 1, January 2012	International Journal of Advanced Research in Computer Science and Software Engineering	International	ISSN: 2277 128X		2011
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
Nilanjan Dey	A Session Based Multiple Image Hiding Technique using Discrete Cosine Transformation	Volume 2, Issue 2, February 2012	International Journal of Advanced Research in Computer Science and Software Engineering	International	ISSN: 2277 128X		2012
Nilanjan Dey	Design and Implementation of RNS Model Based Steganographic Technique for Secured Transmission	Volume 2, Issue 3, March 2012	International Journal of Advanced Research in Computer Science and Software Engineering	International	ISSN: 2277 128X		2012
Nilanjan Dey	A Session Based Watermarking technique Within the NROI of Retinal Fundus	Vol.2, Issue 3, May-June 2012, pp-749-757	International Journal of Modern Engineering	International	ISSN: 2249-6645[Indexed at Microsoft		2012

	Images for Authentication Using DWT, Spread Spectrum and Harris Corner Detection		Research		Academic]		
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
Nilanjan Dey	Using DWT analysis of P, QRS and T Components and Cardiac Output Modified by Blind Watermarking Technique within the Electrocardiogram Signal for Authentication in the Wireless Telecardiology		I.J. Image, Graphics and Signal Processing(IJIGSP)	International	ISSN:2074-9074, 2012, 7, 33-46Published By: MECS Publisher,[ Indexed at EBSCO, Crossref ]		2012
Nilanjan Dey	Detection and Measurement of Bimalleolar Fractures Using Harris Corner		ICACCI-2012Chennai, India, 3-5 Aug. 2012, ACM Digital Library (DBLP indexed)	International	[ISBN-978-1-4503-1196-0]		2012
Nilanjan Dey	Optical Cup To Disc Ratio Measurement In Glaucoma		Third International Conference Computing	International			2012

	Diagnosis Using Harris Corner		Communication and Technologies 2012 (ICCCNT 12), 26, 27, 28th July 2012, Coimbatore, IEEE Xplore				
Nilanjan Dey	Stationary Wavelet Transformation Based Self-Recovery of Blind-Watermark from Electrocardiogram Signal in the Wireless Telecardiology		International Workshop on Intelligence and Security Informatics for International Security (IIS'12), 11-12 October 2012, Trivandrum, India, [ Springer in Communications in Computer and Information Science Series (CCIS)	International	ISSN: 1865:0929 . CCIS is abstracted/ indexed in ISI Proceedings, Scopus, EI and DBLP		2012
Nilanjan Dey	Stationary Wavelet Transform Based Audio Authentication Technique		The Second International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2012), ACM International Conference Proceeding Series (ICPS)	International			2012
Nilanjan Dey	Feature Analysis for the Blind-Watermarked Electroencephalogram Signal in Wireless Telemonitoring Using Alattar's Method		5th International Conference on Security of Information and Networks (SIN 2012), In Technical Cooperation with ACM Special Interest Group on Security, Audit and Control (SIGSAC). Proceedings by ACM Press and Digital Library, 22-26 October 2012, Jaipur, India	International			
Nilanjan Dey	DWT-DCT-SVD Based Intravascular Ultrasound Video Watermarking		Second World Congress on Information and Communication Technologies (WICT 2012), Trivandrum, India: October	International			2012

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Nilanjan Dey	DWT-DCT-SVD Based Blind Watermarking Technique of Gray Scale Image in Electrooculogram Signal		International Conference on Intelligent Systems Design and Applications (ISDA-2012), Kochi, 27-29 Nov. 2012, IEEE Xplore	International			2012
Nilanjan Dey	Analysis Of Photoplethysmographic Signals Modified by Reversible Watermarking Technique using Prediction-Error in Wireless Telecardiology		International Conference of Intelligent Infrastructure , 47th Annual National Convention of CSI –Kol, 01 - 02 December 2012 , McGraw-Hill Proceeding	International			2012
Nilanjan Dey	Lifting Wavelet Transformation Based Blind Watermarking Technique of Photoplethysmographic Signals in Wireless Telecardiology		Second World Congress on Information and Communication Technologies (WICT 2012), Trivandrum, India: October 30-November 02, 2012, IEEE Xplore	International			2012
Nilanjan Dey	Wavelet Based Watermarked Normal and Abnormal Heart Sound Identification using Spectrogram Analysis		2012 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC),Tamilnadu College of Engineering,Coimbatore,India, Dec 18 - 20, 2012	International			2012
Nilanjan Dey	Color Image Encoding Using Genetic Operators	International Conference on Innovation in Management & Information-2012”(ICIMIT-2012),IMT,Faridabad,India,7th April 2012	Conference	International			2012
Nilanjan Dey	A Novel Steganographic approach of Offline Handwritten Signature Authentication	International Conference on Recent Trends of Computer Technology in Academia(ICRTCTA 2012), Udaipur,	Conference	International			2012

	Based on DWT	Rajasthan , India,21-23 rd April 2012					
Nilanjan Dey	Multi-Biometric Encryption Technique:DNA Sequence Encryption Technique Based on Extracted Feature Points from Retinal Fundus Image	International Conference on Recent Trends of Computer Technology in Academia(ICRT CTA 2012), Udaipur, Rajasthan , India, 21-23 rd April 2012	Conference	International			2012
Nilanjan Dey	An Edge Based Watermarking Technique of Medical Images without Devalorizing Diagnostic Parameters	International Conference on Advances in technology and Engineering, NMIMS University, Mumbai, India , January 23-25, 2013, IEEE Xplore	Conference	International			2013
Nilanjan Dey	Feature Analysis for the Reversible Watermarked Electrooculograph y 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
Nilanjan Dey	Multilevel Threshold Based Gray Scale Image Segmentation using Cuckoo Search	International Conference on Emerging Trends in Electrical, Communication And Information Technologies - ICECIT, Dec 12- 23, 2012, ELSEVIER Proceedings	Conference	International			
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
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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 & 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

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A.Banerjee, I.Banerjee,	High Speed Low Power Floating	Indian Journal of VLSI and	Journal	National			2011

A.Dandapat	Point Multiplier Design Based on CSD (Canonical Sign Digit)	Electronics System Design, Accepted, In Press, 2011.					
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Nilotpal Haldar	Microwave Imaging for Breast Cancer Detection	BERA-2011, p.p-126-129, July 2011	Conference	National			2011
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Nilotpal Haldar	MICROCONTROLLER BASED BANK VAULT SECURITY SYSTEM	N3CD2013 p.p-238-243	conference	National	Applied for		25 <sup>th</sup>
Moumita Pal	A Session Based Blind Watermarking Technique within the NROI of Retinal Fundus Images for Authentication Using DWT, Spread Spectrum and Harris Corner Detection	International Journal of Modern Engineering Research (IJMER), Volume 2	Journal	International			2012
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