



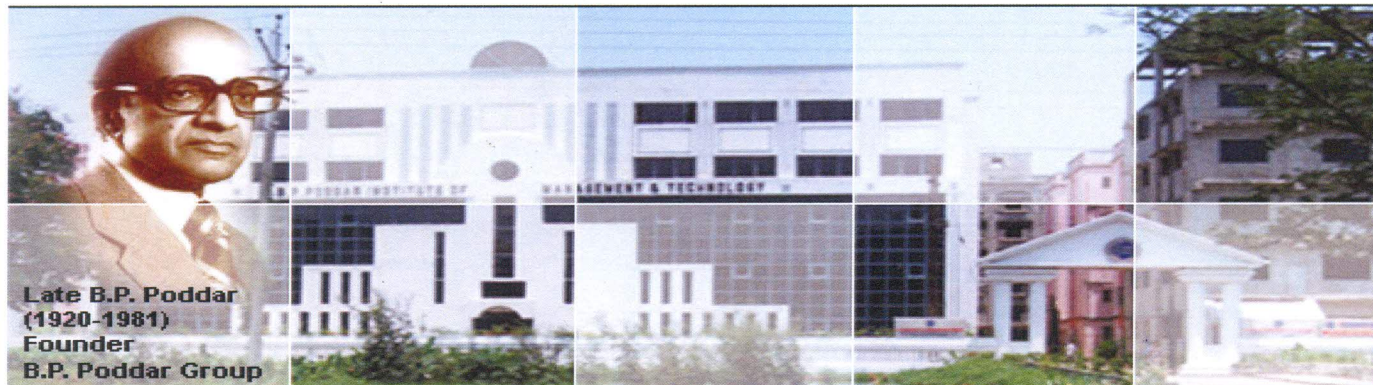
THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine
of

B.P. Poddar Institute of Management and Technology

Email: bppimtnewsletter@bppimt.ac.in

Issue - XVIII, JANUARY 2013 Chief Advisors: Prof (Dr.) Sutapa Mukherjee Editor in Chief: Prof Emeritus (Dr.) S.C.Chakravarty
Prof (Dr.) B.N. Chatterji



Happy New Year! Best wishes are extended for a year full of joy, good health and success. The start of a new year is an opportunity to look back at what has been accomplished. But as truly said by Maria Robinson that "Nobody can go back and start a new beginning, but anyone can start today and make a new ending", so it's the time to look forward to the changes those we need to make. We should be confident with ourselves and go for our goal. Martin Luther King, Jr. once said, "Take the first step in faith. You don't have to see the whole staircase, just take the first step". So let's come together and join our hands to overcome all the shortcomings and raise the flag of our Institute to a new height. Remember nothing is impossible. The word itself says I'm possible. So, hope for the best and go for the dream without thinking about the result. On this occasion I wish all the students, faculty and staff members of BPPIMT family a very happy and prosperous new year.

Prof. Dr. Sutapa Mukherjee
Principal, BPPIMT

ACADEMIC NEWS:

Publications:

Journals:

S. Mandal published his paper titled, "A novel technique for evaluating the polychromatic optical transfer function of defocused optical imaging systems", in online in International Journal Optik, pp.1-3, <http://dx.doi.org/10.1016/j.ijleo.2012.07.038> (October 2012).

T. Bandyopadhyay, B. Bandyopadhyay and **B. N. Chatterji** published their paper titled, "Image security through SVD based robust watermarking and compression techniques", in International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Vol. 1, Issue 3, pp.160-165, (September-October 2012), ISSN: 2278-6856.

Gitosree Khan, Sabnam Sengupta and **Ananya Kanjilal** published their paper titled, "Representation and analysis of object oriented graph (OOG): A graph algorithmic approach", in IJCA, Vol. 55, No. 4, pp.30-37 (October 2012), ISBN: 973-93-80870-73-5.

Arijit Dey, Kunal Das, Debashis De, Mallika De published the paper titled, "Probabilistic Defect Analysis Model for Quantum dot Cellular Automata Design at Analytical Phase" in the International Journal of Computer Application (IJCA), Vol. 55, No. 7, pp. 33 – 41 (October 2012), ISSN: 0975 - 8887.

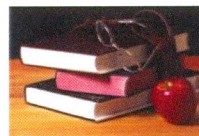
Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya published their paper titled, "Traceability between service component and class: A model based approach", in ACM SI-



GSOFT Software Engineering Notes, Vol. 37, Issue 6, pp. 1-5 (November 2012).

Kunal Das, Debashis De and **Mallika De** published their paper titled, "Competent universal reversible logic gate Design for quantum dot cellular automata", in Wseas Transactions on Circuits and Systems. Vol. 11, Issue 12, pp. 401-411 (December 2012).

Anindita Ray and **Debashis De** published his paper titled, "Intelligent Body Sensor Network for Pervasive Health Monitoring: A Survey" in Journal of Computational Intelligence and Electronic Systems. American Scientific Publisher, USA, Vol.1, Issue 1, pp. 67-81 (2012), ISSN: 2326-3008 (Print); eISSN: 2326-3024 (Online).



Invited talk:

Mr. Somenath Roy Choudhury, HOD CSE department, BPPIMT has been invited to deliver a talk on "Cloud Computing" on 09th January, 2013 in a Faculty Upgradation Programme on "Digital Signal Processing, Speech Processing and Image Processing" organized by CDAC, Kolkata.

Participation:

Ms. Rashmita Mishra, Assistant Professor, Dept. of ECE and Ms. Inadyuti Dutt, Assistant Professor, Dept. of CA attended NEN Faculty Development Course on High Impact Infrastructure Design: Launching Intensive Programs on 6th October 2012 at IEM, Kolkata.

INSTITUTIONAL NEWS:

Faculty Seminar Program "PROSARON"

Dr. Esha Bose, Assistant Professor of Engineering Physics Dept. has delivered a talk on "Study of the magnetic properties of the electron doped series $\text{Ca}_{0.85}\text{Ln}_{0.15}\text{MnO}_3$ where $\text{Ln}=\text{Pr, La and Eu}$ " on 9th November, 2012 in the Institute Seminar hall.

MODROBS

The Electronics & Communication Engineering department of the Institute has received a grant of rupees fourteen lakhs from AICTE for the MODROBS project. The Advance Communication Laboratory has been selected for the modernization program. The chief coordinator for the project is Prof. Dr. Shila Ghosh, Professor and HOD of the ECE department.

University Semester Exam

The odd semester university examination started from 5th December and ended on 18th December 2012. Prof. Dr. Shila Ghosh was the Officer-In-Charge and Mr. Subhasis Pradhan and Mr. Bikromaditya Mondal were the supervisors for the exams.

Udbhav

The second issue of the institutional magazine **UDBHAV** was inaugurated on 20th December, 2012. The magazine was inaugurated by our Principal Prof. Dr. Sutapa Mukherjee. The program was attended by the Dean (Academic Affairs) Prof. Dr. B. N. Chatterji, Registrar Dr. Sandip Ghosh, all HODs, faculty members, and administrative staff members. Contributions from the faculty members, administrative staff and from the students made the magazine a grand success.

Grant for SPIE Student chapter

SPIE student chapter of BPPIMT hosted by the department of ECE has received a grant of around Rs. 64000/- for their different activities from SPIE, USA.



Mr. A. Banerjee delivering talk

Invited Lecture

On 29th Nov, 2011, Mr Ashok Banerjee, Senior Scientist, CDAC Kolkata has given a lecture on "Bengali written character recognition" at the CSE Dept, BPPIMT.

Seminar

Mr Suprabhat Maity, Assistant Professor, CSE, delivered a lecture on Image Processing and Open-CV software in the CSE dept internally arranged lecture series on 4th December, 2012.



Mr. S. Maity delivering lecture

TECHSTORM 2.12

Infused with an accomplishment testimony of the past and a burning desire to nurture an innate passion for expanding the horizon by treading through unexplored terrains, the engineering geniuses, science freaks and computer geeks of B. P. Poddar Institute of Management & Technology, Kolkata joined hands once again to enable their counterparts to grab the opportunity to attain the pinnacle of their potential at the techno fiesta Techstorm 2.12 held at BPPIMT on the 5th, 6th and 8th October 2012.

A scintillating Inauguration ceremony on 5th October 2012 garnished with the august presence of the crème-de-la-crème of the academic fraternity marked the beginning of the techstravaganza. Prof. Bhabani Prasad Sinha, Dean of Studies, ISI, Kolkata honoured the Institute with his Midas touch during this ceremony. Among other dignitaries who graced the occasion were Prof. Dr. Sutapa Mukherjee, Principal, BPPIMT, Prof. Dr. B. N. Chatterji, Dean (Academics), BPPIMT, Prof. Dr. S. C. Chakravarty, Professor Emeritus, BPPIMT and the respective Heads of the Departments. A pious dance rendition on the Saraswati Vandana and lighting of the auspicious lamp by the dignitaries gave the propitious occasion an apt start. The Techstorm committee garnered lot of appreciation as the distinguished persons encouraged their arduous task.



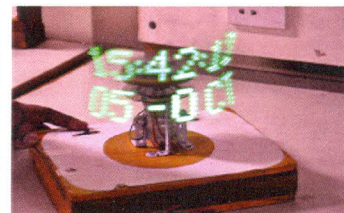
Chief Guest lighting the lamp



Saraswati Vandana



Robot Games



Model displayed for NIRMAN

Robotics, the flagship event of this techno-fiesta, held on the first two days, was subdivided into six events, viz. *Ro-Terrance*, *Ro-Blitz*, *Ro-Combat*, *Ro-Soccer*, *Ro-Navigator* and *Ro-Splash*. Ideas, Intelligent Conception and Impressive implementation were the hallmark of each and every event. The contests were thronged by students from all premier Institutes of Bengal like Jadavpur University, Kalyani Govt. College, Haldia Institute of Technology, Heritage Institute of Technology, Institute of Engineering & Management, Kolkata, MCKV, St. Thomas College of Engineering and other leading engineering colleges of the state. Critical evaluations of the technological innovations by a distinguished panel of jury made a few grab the accolades.

NIRMAN gave the students the necessary platform to showcase their acumen in designing intricate circuitry and display engineering marvel. Some of the works won critical acclaim from the panel of erudite judges while bagging the awards.



Mr. Suvendu Dey at ARCANIA

The spectacular inter-college Quiz mania *ARCANIA* was the showstopper on day 2, that is the 6th Oct, 2012. The challenge posed by the enigmatic *ARCANIA* was embraced by students of Institutes like Jadavpur University, Calcutta Medical College, Presidency University, ISI, Kolkata, IISWBM, Kolkata and other engineering Colleges of the state. The hype and incredible success of the grueling as well as immensely entertaining Quiz show can be attributed to the intelligent conception and impressive presentation on the part of *CONSCIENTIA* and the meticulous planning coordinated with the fervent efforts of the alumni and the present students.

The Untold Story (the creative writing contest) gave the students the opportunity to unleash the creative streak in them and come up with most unconventional and ingenious conceptions spun with their wit and imagination. 35 MM Live, the Photography competition was yet another avenue for the students to paint their respective creative canvases with immortal strokes. The contest provided the much needed colour and aroma to appeal to the aesthetic sensibilities. Both of these were inter-college events.

Of the intra-college events, passion for mathematics manifested itself in the form of zealous participation of the students in *Omegatrix* (Math Magic) as they tasked their grey cells for solving the most mind-boggling mathematical riddles. The animated Virtual Combat rounds namely *FIFA 09* and *NFS* provided enough stuff to unwind after the gripping quizzing rounds. The enthusiastic bunch of students enjoyed these events thoroughly. The students took immense interest to take part in the C-Coding contest namely the *FANTA-C* to put their programming skills to tough test and emerge victorious.



Chief Guest at the Photo Gallery

The third day of the techstravaganza, i.e., the 8th October enthralled the audience with the Movie Screening. Keeping in consonance with the name, *Passion with reels* the participants displayed their innate passion for movie-making as they showcased their concept in screen. The quality and content of the movies impressed everyone. The last phase in the kaleidoscope saw the students winning a huge round of applause and sometimes standing ovations as they mesmerized the audience with their soulful music, vocal and dance renditions as well as their histrionic skills. The Seminar Hall was bursting at its seams while the participants rendered life to the vividly crafted dance drama and plays during their performance in the



Guest of Honor with accolade winners

cultural programme. The Prize Distribution ceremony that followed was graced by none other than the erudite and distinguished Prof. A. N. Chowdhury, an alumnus of Imperial College, London. His colossal presence and motivating words were a source of immense inspiration for the students. Other dignitaries in the occasion included Prof. Dr. Sutapa Mukherjee, Principal, BPPIMT, Prof. Dr. B. N. Chatterji, Dean (Academics), BPPIMT and the Head of the Departments. The programme was wrapped up with a vote of thanks by the Convener Ms. Sudipta Chakraborty.

FOCUS ON VARIOUS STREAMS OF BPPIMT

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering of this Institute has begun its saga since its inception. The main pillar of its strength is its human resource which is an amalgam of persons from academia & industry contributing immensely to the growth and development of the Department with knowledge & skills acquired through years of rigorous culture. The Department is adorned by the presence of experienced senior faculty members like Mr. Pramathes Das, HOD and Associate Professor and Dr. Nil Kanta Datta who serves in the capacity of Professor. Two other Associate Professors namely Ms. Sudipta Chakraborty and Ms. Nandita Sanyal are mentoring the students for over a decade or so. The Department is also privileged to possess Assistant Professors like Ms. Sutapa Mukherjee, Ms. Chandrani Das, Ms. Madhumita Mondal, Ms. Sujata Saha, Ms. Anushree Roy, Ms. Susmita Dey and Ms. Tista Banerjee. A host of highly capable Technical Assistants are complementing the contribution of the faculties.



HOD with faculty members

Faculty members with tested acumen and proven credentials in their respective fields are striving incessantly to upgrade and update their attributes. Four of them are actively involved in research and developmental activities few of whom are expected to acquire their doctoral degrees shortly. There is an ongoing research project funded by The Department of Science & Technology, West Bengal with Ms. S. Chakraborty as the Principal Investigator.



HOD with technical staff

Faculty members like Mr. P. Das, Dr. N. K. Datta, and Ms. N. Sanyal are actively involved in Consultancy assignments. Mr. P. Das and Ms. S. Chakraborty have delivered invited lectures in Institutes and Industries abroad. Prof. (Dr) N. K. Datta supervised Ph.D. Thesis of Mr. Tapan Chowdhury (Design Engineer of M.N. Dastur) in 1995 on the topic of "Microcomputer Graphics Aided selection & Co-ordination of protective relay and study of Corona Effect on Power System" with Dr. Samiran Chaudhury, Prof., Dept of Electrical Engineering, Jadavpur University. Mr. Pramathes Das supervised the M. Tech thesis of Mr. Dilip Dey during 1994-95, the title of the thesis being "Temperature Control of Antibiotic Growth in Bio-Reactors". The faculty members have authored a number of text books and contributed in terms of book chapters. Two of our faculty members Ms. Sumana Chowdhury and Mr. Parimal Goswami completed their Ph.D. in 2003 and 2006 from Jadavpur University.

Besides achieving higher grades in academic accomplishments the faculties deliver dedicated service through involvement in institutional and Departmental activities, both administrative like examination, anti-ragging, institutional purchase as well as co-curricular ones like Technical Fests, Cultural Fests, Magazine, Entrepreneurship Programmes, Sports, Industry-Institute interaction etc.



Students in the lab

The Department is proud to house ten state of the art Laboratories equipped with high-end machines and Computers with latest user friendly software to aid the process of learning and inculcating technical skills. These are Control Lab, Electrical Machine Lab, Power System Lab, Power Electronics & Drives Lab, Electrical Measurement Lab, Circuit Theory & Network Lab, Thermal Power Engineering Lab, Electrical Machine Design Lab, Project Lab and Basic Electrical Engineering Lab. The knowledge gained from the lessons delivered by the faculties in the classrooms is supplemented by practical hands on experience through exposure to various machines and innovative projects in emerging areas of Digital Signal Processing, Automatic Control, Bio-Medical Instrumentation, Power plant engineering, Energy management, Fault Analysis in Electrical Systems, advanced projects using Programmable Logic Controllers and the like.

The Departmental Library comprising about 500 Text and Reference Books and a good collection of National and International Journals caters to the needs of students. Illustrious luminaries from premier Institutes like IIT's, reputed Universities and Top-notch Companies are invited to deliver lectures at the Institute Seminar Hall. The students get a flavour of the world awaiting them through interactions with these eminent persons. The Department has opened student chapter with IET, UK and regularly conducting Workshops and Seminars in collaboration with IET. Ms. T. Banerjee, Assistant Prof. of Dept. is the Secretary of, YPS Section of IET. Every year the department is hosting the technical competition PATW which has a global coverage. The department organized two national conferences ETET (Emerging Trends in Electrical Technology) on 2nd September 2006 and CSTS (Control, Sensors, Transducers & Signal conditioning) on 28th April 2012. In ETET eminent persons like Prof. Mrityunjay Bhattacharya, EX-VC WBUT and Prof. Sujay Basu of Jadavpur University participated. In CSTS luminaries like Prof. Tapan Ghosal, Prof. Amit Konar, Prof. Amitabha Chatterjee of Jadavpur University and Prof. Abhik Mukherjee from BESU participated.

Care is taken to promote co-curricular and extra-curricular activities for the healthy growth and development of the Human products of the Institute. The students are very zealous about participation in Robotics and Annual inter-college Quiz show "Arcania" and other literary events where they frequently bag the accolades. The Electrical Engineering Department has been the harbinger so far as publishing a Magazine is concerned. The Departmental Magazine titled "Prabaha" containing technical as well literary articles have been on circulation since 2004.

The Department is proud of its students who are well placed in reputed Organizations in the Corporate Sector and also on the faculty of Premier Institutes. Some of the graduated students are pursuing higher studies in reputed Institutes in India and abroad. Soumya Das has completed graduate studies from Manchester University. Suddhaswatta Chakraborty is serving Jadavpur University as faculty member of Department of Electrical Engineering. Subhadeep Mukherjee is pursuing graduate studies at Buffalo University. Sneha Banerjee is serving Rensselaer Polytechnic Institute at New York. Anirban Acharya is pursuing integrated PhD programme at Helsinki. Haimanti Mukherjee is doing doctoral work at Germany. Few students are pursuing higher studies at NUS, Singapore.

The members of this family are looking forward to its brighter journey with an earnest hope and burning desire to make a strong endeavour to improve in terms of quality and quantity to provide better services to the student fraternity.

- **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members headed by Prof (Dr.) N. K. Datta, with Prof. Emeritus Dr. S.C. Chakravarty as Chief Editor, Prof (Dr.) Sutapa Mukherjee, Principal and Prof (Dr.) B.N. Chatterji, Dean as the Chief Advisors and Dr. Arijit Saha Associate Professor as Editor of the Newsletter.
- **Call for Contributions:** Contribution for the Newsletter on the global and national news related to technical, economical, philosophical and general science etc. is solicited from all the members of the BPPIMT family and the students. The prospective contributors are requested to send their writings in about 200 words electronically to the mail address: bpipmtnewsletter@bpipmt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.