



THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine
of

B.P. Poddar Institute of Management and Technology

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Issue - XI, April 2011 Chief Advisors: Prof (Dr.) Sutapa Mukherjee Editor in Chief: Prof Emeritus (Dr) S.C. Chakravarty
Prof (Dr) B. N. Chatterjee



REMEMBERING SWAMI VIVEKANANDA – AN EDUCATIONIST



Swami Vivekananda (1863 – 1902), a great thinker and reformer of India, embraces education, which for him signifies 'man-making', as the very mission of his life. Vivekananda points out that the defect of the present-day education is that it has no definite goal to pursue. A sculptor has a clear idea about what he wants to shape out of the marble block; similarly, a painter knows what he is going to paint. But a teacher, he says, has no clear idea about the goal of his teaching. Swamiji attempts to establish, through his words and deeds, that the end of all education is man making. Swamiji defines education as 'the manifestation of the perfection already in man' and the aim of education is to manifest in our lives the perfection.

What is Education? Swamiji says – Is it just reading a Book? Is it to try to accumulate various skills? No! To make our Will power and habits channelize into a useful stream of purposeful power!

Farewell Message to our Final Year Students-2011 from the Principal

While wishing all the best to our final year students who are about to enter a new world of opportunities, I advise you to focus on changing the things you can for betterment, and adopt to the things you cannot. Remember what Swamiji said: *Nothing in this world one cannot do for the good of the self and the Nation if one sincerely tries with confidence and knowledge.* So in your journey to the professional world be calm but be resolute. Stop thinking of stress instead take charge and turn it into a positive force.

- Prof (Dr.) Sutapa Mukherjee

ACADEMIC NEWS:

Publications:

Books:

Mr. Pramathes Das, HOD of the Department of Electrical Engineering got his book titled "Basic Electrical and Electronics Engineering Vol. II" published from J. B. Books & Learning in February 2011, ISBN: 978-81-910235-7-2.

Mr. Binoy Krishna Biswas of the Department of Mechanical Engineering published a book titled "Electrical Engineering Materials" Vol. 1, ISBN 978-81-259-4196-5.

T.H. Kim and Debnath Bhattacharya of Department of Information Technology published "Object oriented programming using JAVA" from New book publisher, Korea, ISBN 978-89-6449-079-2.

P.Chakraborty, S. Bedjana and Debnath Bhattacharya of Department of Information Technology published the 3rd revised edition of "Unix and Shell Programming" from Matrix Educare, Kolkata

Journals:

Mr. Arijit Saha, of the Department of Electronics & Communication Engineering, **Kallol Bhattacharya** and **Ajoy Kumar Chakraborty** got their paper titled "A reconfigurable achromatic half-wave and quarter-wave retarder in Near Infrared (NIR) using crystalline quartz plates" published in the International Journal: Optical Engineering, Vol. 50(3), 034004 (1-4) (March 2011).

Mr. Ambar Dutta, Dr. Abhijit Kar and Prof. B. N. Chatterji, Academic Dean BPPIMT published the paper titled "A new approach to corner matching from image sequence using fuzzy similarity index" in Pattern Recognition Letter, Vol. 32, 2011, pp. 712-720.

Conferences:

Prof. B. N. Chatterji, Academic Dean BPPIMT delivered the keynote address on "Digital watermarking and applications" and also chaired the Inauguration and Valedictory functions at the conference on Advances in Instrumentation, Measurement and Applications held at Cuttack during Feb 24 & 25, 2011.

Prof. B. N. Chatterji, Academic Dean BPPIMT delivered the talk on "Content based image retrieval" and also chaired the Valedictory function at the National seminar on Advances in Signal and Image Processing held at JNTU, Kakinada during Feb 26 & 27, 2011.

Ms. Tista Banerjee of the Department of Electrical Engineering published a paper titled "Off line optimization of PI and PID controller for a vector controlled Induction Motor drive using PSO" at the 6th International Conference on Electrical and Computer Engineering, ICECE 2010 (IEEE) Dhaka during 18-20 December 2010.

Ms. Tista Banerjee of the Department of Electrical Engineering published a paper titled "Existing Harmonic filter technologies and study of harmonic current filter for single phase non-linear load", at the 34th National Systems conference (NSC 2010) during 10-12 December 2010.

Ms. Sudipta Chakraborty of the Department of Electrical Engineering published a paper titled "An algorithm for tackling post-ejection scenario of airborne vehicles", at the 34th National Systems conference (NSC 2010) during 10-12 December 2010.

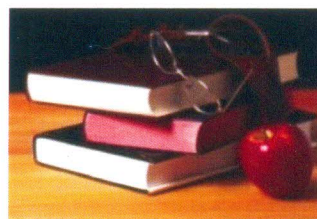
Prof. B. N. Chatterji, Academic Dean BPPIMT presented a paper



on "Management of Academic Research for PhD Degree – An Academician's View Point" at the National seminar on Research Management held at Gunupur, Orissa during March 26 & 27, 2011.

Mr. Arijit Saha of the Department of Electronics & Communication Engineering, **Kallol Bhattacharya** and **Ajoy Kumar Chakraborty** presented their paper titled "A technique for rotation Compensation for a composite birefringent system" and got it published at the Proceedings of XXXV Optical Society of India Symposium International conference on CONTEMPORARY TRENDS IN OPTICS AND OPTOELECTRONICS, jointly organized by Indian Institute of Space Science and Technology (IIST) and Optical Society of India (OSI) held at Thiruvananthapuram, India during January, 17 - 19, 2011.

Mrs. Jayeeta Chanda of the Department of Computer Science, **Dr. Sabnam Sengupta** of the Department of Information Technology, **Dr. Ananya Kanjilal** of the Department of Computer Science and Prof. Swapan Bhattacharya published their paper titled "FAM2BP: Transformation Framework of UML Behavioral Elements into BPMN Design Element" in Communications in Computer and Information Science, 2011, Volume 131, Part 1, 70-79, DOI: 10.1007/978-3-642-17857-3_8 at Advances in Computer Science and Information Technology First International Conference on Computer Science and Information Technology, CCSIT 2011, Bangalore, India, held during January 2-4, 2011.



Bikramaditya Mondal of the Department of Computer Science, **Pradyut Sarkar** and **Susanta Chakraborty** got their paper titled "Synthesis of Reversible Logic Circuit using Unitary Matrix", published in the Proc. of 2nd IEEE International Workshop on Reliability Aware System Design and Test (RASDAT), pp. 84-88, January 2011.

Pradyut Sarkar, Bikramaditya Mondal of the Department of Computer Science and **Susanta Chakraborty** got their paper titled "Optimal Universal Test Set for Bridging Faults Detection in Reversible Circuit Using Unitary Matrix", published in the Proc. of 2nd IEEE International Workshop on Reliability Aware System Design and Test (RASDAT), pp. 37-42, January 2011.

Ms. Tista Banerjee of The Department of Electrical Engineering published a paper titled "Microcontroller based single phase inverter with remote control facility", at PEDES 2010 (IEEE) Delhi during 21-23 December 2010.

Invited Talk:

Mr. Soumya Pal, Assistant Professor and HOD of MCA department was invited by Dean, Assam University, Silchar to deliver a talk on "Software engineering paradigm: TQM" at the Department of Mathematics, Assam University on 6th January 2011.

Participation:

Mrs. Ivy Majumdar and **Mr. Panthadeb Saha** of the Department of Electronics & Communication Engineering participated in STTP on Fiber Optic Communication in January 2011 at NITTTR, Saltlake, Kolkata.

Prof. Dr. Shila Ghosh, HOD ECE, participated in the UGC sponsored workshop on "Digital Signal Processing – Algorithms, Architecture and Applications" organized by WBUT during March 25-27, 2011.

INSTITUTIONAL NEWS:

One Day Workshop

A one day workshop on *Embedded System* had been organized by the Department of Electronics & Communication Engineering on 25th January. Faculty members of the department attended the program. The 3rd year and 4th year students of the department attended the workshop with a lot of enthusiasm. The speakers were from Industry associated with Embedded Technology. They talked on PSoC, PSoC3 and PSoC5 architecture. At the end of the seminar session, there was a hands-on session for the students. The program was a grand success.

Technical Seminar

Mr. Soumya Pal, Assistant Professor and HOD of MCA Department delivered a seminar talk on "A Heuristic for Wavelength Assignment in Multifibre WDM Optical Network" at the seminar room of BPPIMT on 28th January 2011, under the faculty seminar scheme of BPPIMT.

Student Achievements

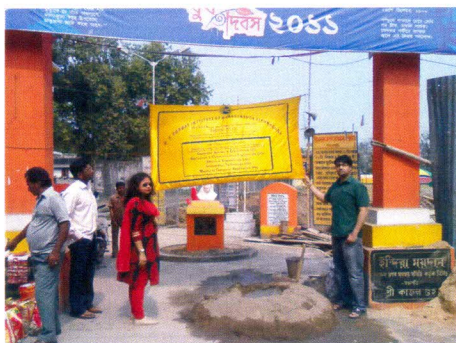
- Mr. Arnab Das, 4th year student of ECE Department has secured the 1st position in the event "Open Hardware" at Kshitij 2011 – the techno-management fest held at IIT Kharagpur during 28th-31st January 2011. He also secured the 3rd position in another event "Open soft" and was a finalist in "Eureka" at Kshitij 2011. This was an open program where participants from various parts of the country, including the IITs participated. We are proud of our student Mr. Arnab Das for his success in such a prestigious event.
- Arpan Sen, 3rd year student of CSE Department has been selected for the International Microsoft embedded SPARK challenge 2011 and also for the National Intel India embedded challenge 2011 for his project Remote Health Monitoring and Response System (RHMR) & Universal Response Framework (URF) Rizwan Siddiquee, 2nd year student of IT department received a Blackberry Phone from Star Movies channel on 28th January 2011 for participating in their month long Dynamite Decade Contest.
- Sumanta Dutta, student of ECE department secured the position of 1st runner up for the event ADDICT in Srijan 2011 held at Jadavpur University during 25-27 March 2011.
- Naman Singhal, student of 3rd Yr CSE department has won the 1st position in RoboWarz (ROBOTICS) at Netaji Subhas Engineering College; Kolkata held during 4th -6th march 2011, also secured the 1st position in Sudoku (Tech-De-Storm) at Camellia Institute of Technology, Kolkata on 11th March 2011 and secured 2nd position in Robo Wars at MCKVIE (Pragati 2011) during 26-27 March 2011.
- Ashhadul Islam, 3rd year student of CSE department participated in various Techfests and has secured 1st position in the following events: Autonomous Robotics Wall Maze Solver at NIT Durgapur held on 10th Feb 2011, Line Follower at BESU, Shibpur held on 4th March 2011, Autonomous Robotics at Netaji Subhash Engineering College, Shibpur held on 5th March 2011 and Wall Maze Solver at Jadavpur University held on 26th March 2011. He secured 2nd position in Wall Follower held at MCKV Institute of Engineering on 27th March 2011.

Presentation and Participation in Seminars and Workshops by students

- Gourav Baid and Khushboo Bothra, students of IT department presented a paper work on "Security system and ethical hacking" at CSI Kolkata on 25th February 2011.
- Siddhant Jain a 2nd year student of IT department presented paper titled "Protecting log files and hackers tools" in ISI on 25th January and presented another paper in IET on 17th February and is selected among the top 15 speakers.
- Vikash Bhardwaj Singh presented a Paper on Power Manager at BESU, shivpur fest on 6th March, 2011.
- Siddhant Jain, Gagandeep Kaur, Bipasha Ghosh and Aditi Agarwal students of IT department participated in a workshop on ethical hacking at Jadavpur University during 12th and 13th Feb. and another workshop on animation and 3D using Maya at ISMU during 22nd and 23rd Jan.
- Vikash Bhardwaj Singh, Gagandeep Kaur, Bipasha Ghosh, Shikha Pandey and Aditi Agarwal students of IT department attended a seminar at ISI on 25th Feb 2011.
- Sagarika, Sristi Sinha and Shikha Pandey students of IT department attended a workshop on ethical hacking by Saket Modi at Jadavpur University during 12th and 13th Feb. 2011.
- Sagarika student of IT department won the debate held in college on 18th Feb. 2011. She also delivered a presentation on cyber crime at CSI on 25th Feb, 2011
- Brinda Mittal and Anjali Priya students of IT department submitted a paper work on Green IT at CSI, Kolkata on 25th Feb, 2011.
- Sankha Suvra Bhaumik, Samadrita Das, Bipasha Karan, Anurima Malik, Rashmi Sethia, Atreyee Khan and Khushboo Didwania 3rd year students of IT department participated in the Regional Student Convention at ISI, Kolkata on 25th Feb, 2011.

Annual Sports Day- 2011

All Work And No Play, Makes Jack A Dull Boy – this very proverb by James Howell in 1659, is known to everyone and is surely applicable to everyone, whether he/she is a student, a teacher, a parent, or anyone else. Keeping this spirit high, our college organized the Annual Sports Day on February 19, 2011, the venue being the Indira Maidan, near Dum-Dum Railway Station. It was celebrated with a great zeal, and many events were organized in which both the students as well as the teachers showed their enthusiastic gesture. Various track events like – 50 m Sprint (Women), 100 m Sprint (Women), 100 m Sprint (Men), 200 m Race (Men), 400 m Race (Men), 4x50 m Relay Race (Inter-Department) and 100 m Sprint (Faculty- Men) were held. Several field events as Shot-Put (Men), Shot-Put (Faculty- Men) and Shot-Put (Faculty- Women) took place. A special event Ball-in-the-Bucket was held for Women Faculty. Gold Medal and Certificate for the Winners of all the Events, Silver Medal and Certificate for the 1st Runner-Up of all the Events and Bronze Medal and Certificate for the 2nd Runner-Up of all the Events were awarded at the end of the function.



Inter-Departmental Cricket Tournament 2011

With the growing fever for the Cricket World Cup 2011 in the Indian sub-continent, our college too injected charisma in their students by organizing the Inter-Departmental Cricket Tournament for the Academic Session 2010-11. Going for over a week, it started on 14th Feb'11 and ended on 25th Feb'11. The tournament was held at Saltlake HB ground. Seven teams participated in the tournament. The 1st semifinal was between CSE and BBA and the 2nd semifinal was EE vs. ECE. The final was between EE and CSE. EE became champion. Atanu, EE 2nd year was declared Man-of-the match. We are pleased to give the names of the players of the champion team – Anirban (C), Shibasis, Chirajit, Akash, Abhishek, Surajit (all of 4th year), Atanu, Sayak, Omprakash, Ankur (all of 2nd year) and Taufik (1st year). Sumit (4th year) was the 12th man. Principal Prof. Dr. Sutapa Mukherjee graced the occasion by her presence. Students and faculties of all departments were present. Both the winning team and the runner-up team received individual certificates and medals for all the members of the squad. Also the champions and the runner-up team received championship and the runner-up trophies respectively.



Match going on



Principal & faculties with the champions



Students engaged in the match

Student Chapter of IET-UK



On 17th March, 2011, the inauguration ceremony of the launch of the student chapter of IET, UK was held at B. P. Poddar Institute of Management & Technology, Kolkata. The Institution of Engineering and Technology, UK, a global community of the erudite and the enthusiasts was conceived through an amalgamation of The Institution of Electrical Engineers (IEE) and the IIE (Institution of Corporate Engineers) in 2006, with a mission to connect together a network of creativity, innovation and expertise in the fields of learning and teaching and use this collective power to change the face of education.

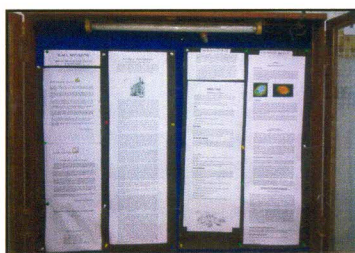
The occasion was honoured by the gracious presence of Prof. Dr. Sutapa Mukherjee, Principal, BPPIMT, Prof. Dr. B.N.Chatterji, the Dean of Academic affairs, Mr. Pramathes Das, Head of the Department of Electrical Engineering, Mr. A. K. Saha, honorable Chairman IET-UK Kolkata LN, Mr. Rajarshi Ghosh, Honorary Secretary, IET, UK, Kolkata LN and few other dignitaries who enlightened the inquisitive minds with their inspiring thoughts and ideas. Prof. Dr. B. N. Chatterji, Chief Guest of the occasion proposed the name of Mr. Pramathes Das, HOD, EE as the coordinator of IET, UK student Chapter at BPPIMT which was unanimously accepted. Ms. Tista Banerjee, Assistant Professor, EE, was chosen as the Co-coordinator.

Wall Magazine

HOLI—the colors of life is the first ever published wall magazine of the department of IT. It is an initiative taken by IT 3rd year students supported by IT 2nd and 1st years and the teachers of the department. It was published on 16th March. The theme of the wall magazine depicts the festival of colors—HOLI. It is the collection of poems, stories and drawings of students of IT where they have portrayed the meaning of colors in their life. The wall magazine was an open canvas which was painted with vibrant colors and inspiring articles. The creative souls of the family of Electrical Engineering once again displayed their enthusiasm in setting up the first issue of the Departmental Wall Magazine. The Wall Magazine, born of an ardent endeavor of the innovative minds is a celebration of the spirit and flavor of Electrical Engineering. It is a joy to see this magazine providing a platform to the gifted wits to display their flair along with their depth of awareness and comprehension in various fields of science and technology. Department of Computer Application released its first wall magazine in the month of March 2011. The magazine was inaugurated by the Principal Prof. Dr. Sutapa Mukherjee in presence of the Dean Prof. Dr. B. N. Chatterji, Heads of various departments and faculty members. Students enthusiastically displayed myriad of colours, poems, texts, jokes on their Wall board. Department of Computer Science & Engineering also released a wall magazine on 25th March 2011.



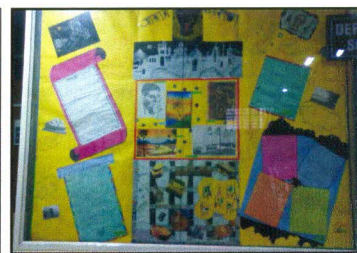
Wall magazine of IT department.



Wall magazine of EE department.



Wall magazine of CA department.



Wall magazine of CSE department.

Presentation around the World PATW 2011

PATW is a three level competition organized by IET, UK to encourage young, aspiring, budding engineers to showcase their skills and technical knowhow. The three stages are, Regional Level, National Level and International Level. The Regional Level project competition was organized by IET YP Section Kolkata Local Network, from 15th March –17th March 2011. Three Engineering colleges of West had been selected as venues for the Technical Sessions. Ms. Tista Banerjee, faculty (EE), BPPIMT coordinated the activities of PATW 2011 at BPPIMT. Five students of BPPIMT took part in the competition. Three of them qualified for contesting in the final round of the Regional Level Competition which was held at MCKV institution on 21st March 2011. Among them Arnab Das (ECE 4th yr) and Sangram Laha (EE 4th yr) were shortlisted for participation in the National Level Competition. Arnab Das presented a paper titled "Telephone Based Home Automation System with IVRS" and Sangram Laha presented a paper titled "Automated Rail Track Inspection Robot Using Solar Energy".

▪ 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 Mr. Arijit Saha Assistant 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: newsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.