



# THE BPPIMT - NEWSLETTER

*A Quarterly In-House Magazine*  
of

**B.P. Poddar Institute of Management and Technology**

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Issue - XIV, JANUARY 2012 Chief Advisors: Prof (Dr.) Sutapa Mukherjee Editor in Chief: Prof Emeritus (Dr.) S.C.Chakravartty  
Prof (Dr.) B.N. Chatterji



**Late B.P. Poddar**  
**(1920-1981)**  
**Founder**  
**B.P. Poddar Group**



Another eventful year has passed and we are at the doorstep of a new year with new resolutions and expectations. In this new dawn, I am confident that by joining our hands together we can overcome all the hurdles and raise the flag of our Institute high. I would like to remind you that nothing good comes easy--it takes hard work and sacrifice. Remember that every success is an accumulation of thousands of disciplined ordinary efforts. I know that you can achieve all of your dreams and goals if you are willing to work hard with strong dedication and sincerity. Every sunset gives us one day less to live! But every sunrise gives us, one day more to hope! So, hope for a brighter tomorrow.

On this special occasion I wish all of our students, faculty and staff members a very happy and prosperous new year.

- Prof. (Dr.) Sutapa Mukherjee

Principal BPPIMT



## ACADEMIC NEWS:

### Publications:

#### Journals:

Dipankar Majumdar, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya published their paper titled, "Automated Requirements Modelling With Adv-Ears" in International Journal Of Information Technology Convergence And Services, ISSN:2231-153X (Online) 2231-1939 (Print), Vol. 1, No. 4, pp. 57-67, (August 2011).

Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya published their paper titled, "SCAG: a graphical approach to measure the complexity of the SOA application" in ACM SIGSOFT Software Engineering Notes, ISSN: 0163-5943, Vol. 36, No. 5, pp. 1-6 (September 2011).

Jayeeta Chanda, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya published their paper titled, "CA-ESB: Context Aware Enterprise Service Bus" in International Journal of Computer Applications, ISSN:0975 - 8887, Vol. 30, No. 3, pp. 1-8 (September 2011).

Arijit Saha, Kallol Bhattacharya and Ajoy Kumar Chakraborty published their paper titled, "A near infrared zero-order achromatic retarder", in Pramana Journal of Physics (Springer), Vol. 77, No. 4, pp. 627-631 (October 2011).

Surajit Mandal and Ajay Ghosh published their paper titled, "Polychromatic intensity point spread function of a birefringent lens", in Optik (Elsevier), doi. 10.1016/j.ijleo.2011.08.045 (Available online 14 November 2011).

Sutapa Mukherjee and B. Ray, published their paper titled, "Correlating Indian measured Sky luminance distribution and Indian Design clear sky model with five CIE standard clear sky models" in Journal of Optics (Springer), DOI 10.1007/s12596-011-0047-8, (November 2011).

Rikhiya Dhar, Priyanka Dhar and Ranjit Dhar published their paper titled, "Problem on optimal distribution of induced microwave by heating probe at the tumor site in hyperthermia" in Advanced Modeling and Optimization, ISSN:1841-4311, Vol.13, No. 1, pp. 39-48, (November 2011).

N. Sanyal, A. Chatterjee and S. Munshi published their paper titled, "An adaptive bacterial foraging algorithm for fuzzy entropy based image segmentation" in Expert Systems with Applications, Vol. 38, No. 12, pp. 15489-15498, (November-December 2011).

Surajit Mandal and Ajay Ghosh published their paper titled, "The effect of broadband illumination on the imaging characteristics of birefringent lens suffering from primary spherical aberration", in Journal of Optics (Springer), Vol. 40, No. 4, pp. 198-205 (December 2011).

Indra Kanta Maitra, Sanjay Nag and Samir K. Bandyopadhyay published their paper titled, "Anatomical Segmentation of Digital Mammogram to Differentiate Breast Regions" in International Journal of Research and Reviews in Computer Science (IJRRCS), ISSN: 2079-2557, Vol. 2, No. 6, pp. 1327-1330, (December 2011).

R. Goswami, S.C. Chakravarty, J.B.M. Krishna, E. Bose, D. Das, P.Saha and U. Mukherjee, published their paper titled, "AC conductivity and dielectric analysis of graphite - clay nanocomposite" in Canadian Journal of Physics, ISSN:1208-6045, Vol. 89, pp. 1255-1260, (December 2011).

### Conference:

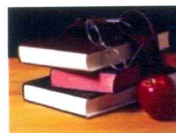
Arnab Das, Saikat Das Adhikari, Rohini Basu, Shila Ghosh and Tista Banerjee presented their paper titled, "Remote controlling of Home appliance using Mobile phone and Personal computer With Interactive Voice Response Systems" in International conference on Nanoscience, engineering & advanced computing (ICNEAC-2011), 8th-10<sup>th</sup> July 2011.

Swapan Bhattacharya, Jayeeta Chanda, Sabnam Sengupta and Ananya Kanjilal presented and published their paper titled, "Dynamic Service Choreography using Context Aware Enterprise Service Bus" in Intl. Conf. on s/w Engg. & Knowledge Engg. (SEKE), Miami, USA, pp. 319-324, 7th-9<sup>th</sup> July 2011.

Dipankar Majumdar, Sabnam Sengupta, Ananya Kanjilal and Swapan Bhattacharya presented and published their paper titled, "Adv-EARS: A Formal Requirements Syntax For Derivation Of Use Case Models" in Intl. Conf. on Advances in Computing and Information Technology, DOI: 10.1007/978-3-642-22555-0\_5, pp. 40-48, 15th-17th July 2011.

Esa Bose, Sudipta Pal and Sanjay Biswas presented and published their paper titled, "Study of low temperature magnetic properties of  $\text{Pr}_{1-x}\text{Nd}_x\text{MnO}_3$ ,  $x=0.3, 0.5, 0.7$ " in Conference on Condensed Matter Days 2011, Book of abstracts, pp. 134, August 2011.

N.Sanyal, A.Chatterjee and S.Munshi presented and published their paper titled, "Application of Adaptive Bacterial Foraging Optimization algorithm for image Segmentation" in CALCON IEEE national Conference, 4th-5th November 2011.



Tarunendu Mapder and Lipika Adhya presented and published their paper titled, "Alpha - Helices as Macro-Dipoles Affecting the Voltage Sensor Domain of Kvap" in Proceedings of International Interdisciplinary Science Conference 2011 On Bioinformatics: An Interface between Computer Science and Biology, pp. 61, 15-17 November 2011.

Arijit Saha, Kallol Bhattacharya and Ajoy Kumar Chakraborty presented and published their paper titled, "A zero-order achromatic quarter-wave plate for visible spectrum" in the 2<sup>nd</sup> International Conference on Trends in Optics & Photonics (ICONTOP-2011), 7-9 December 2011, Kolkata, India.

Surajit Mandal and Ajay Ghosh presented and published their paper titled, "Frequency response characteristics of a birefringent lens under broadband illumination" in the 2<sup>nd</sup> International Conference on Trends in Optics & Photonics (ICONTOP-2011), 7-9 December 2011, Kolkata, India.

Kunal Das and Debashis De presented and published their paper titled, "QCA Based Re-Programmable Logic Array for Logic Implementation" in International Conference ICANN'11, held on 08th Dec'11 to 10th Dec'11 at IIT Guwahati, Abstract Proc. pp. 443. Springer Conf. Proc. (In press).

Sudip Kundu and Sriyankar Acharyya presented and published their paper titled, "Stochastic local search approaches in solving the nurse scheduling problem" in the 10th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2011), 14-16 December 2011, Kolkata, India. The paper was selected as the best paper.



Nilanjana Pradhan, Kunal Das and Debashis De presented and published their paper titled, "Low Power Logic Design Using MQCA" published in XVI International Workshop on the Physics of Semiconductor Devices, held on 19th- 20th Dec'2011 at IIT Kanpur.

Anindita Ray and Debashis De presented and published their paper titled, "Energy efficient clustering hierarchy protocol for wireless sensor network" in IEEE International Conference on Communication and Industrial Application (ICCIA)-2011 having ISBN: 978-1-4577-1915-8, pp. 1-4, held on 26th to 28th December 2011 at Science City, Kolkata.



#### Articles in Magazines:

Dr. Uddipan Mukherjee, Assistant Professor of the Department of Physics published 7 articles in various magazines and journals during Oct-Dec 2011.

#### Recognition:

Arijit Saha, Associate Professor of ECE Dept. has been selected as Member of Editorial Board of International Journal of Physics and Mathematical Sciences, with ISSN 2277-2111 (Online).

Soumya Paul, Associate Professor and Head of Computer Application, acted as Technical Paper Reviewer in IEEE sponsored International Conf.(RAIT, 2012), organized by Dept. of Computer Science & Engineering at ISM, Dhanbad.

#### Participation:

Soumitra Singh, of the Department of Electronics & Communication Engineering attended one day seminar on Matlab & Simulink for Engineering Education on 21<sup>st</sup> December 2011.

### INSTITUTIONAL NEWS:

#### IET Student Chapter

The Electrical Engineering Department of BPPIMT in association with IET, Kolkata Chapter organized a lecture on "Power system and protection", delivered by Mr. P. Bhoumik, Faculty of IEM and research scholar of Jadavpur University on 13<sup>th</sup> and 14<sup>th</sup> October 2011. The talk was very educative and appreciated by the students and faculties alike.

#### Faculty Seminar Program "PROSARON"

Mr. Kunal Das, Assistant Professor of the Dept. of Information Technology presented his talk on "Quantum dot cellular automata (QCA): The future alternative of CMOS technology in VLSI design" on 22<sup>nd</sup> December 2011 at the Institute Seminar Hall. This is a part of the faculty seminar scheme of BPPIMT.

#### Departmental Magazine



The launch of the fifth edition of "Probaho", the departmental magazine of Electrical Engineering department was celebrated on 19<sup>th</sup> Nov 2011. It contains both literary and technical articles and has been on circulation since 2005. It has been guided by Mr. Pramathes Das, Ms. Sudipta Chakraborty and Ms. Tista Banerjee and has been edited by final year students, Debashmita Basu, Sayan Santra, Prabirachitta Mukherjee with Saikh Sahid Parvez as chief editor.



Dept. of Computer Application published their second quarterly Wall Magazine in December 2011, with Inadyuti Dutt, Asst. Professor, MCA Department as editor. The Wall magazine is the representation of students' views and thoughts in diverse ways. It is the culmination of hand paintings, drawings, prose, poems, jokes and various informative texts. The next quarterly Wall Magazine is scheduled in the month of March, 2012.

#### Semester Exams

The end semester WBUT Examination was held during December 2011 as per the guidelines of WBUT. The Institutional exam committee members worked hard for smooth coordination of the Examination with Dr. Shila Ghosh as the Officer-in-charge and Mr. Surajit Mandal and Mr. Kunal Das as supervisors. With support from all members the examination was conducted smoothly and was highly praised by the University Station Supervisors.

#### Pre-Placement Activities

Training on soft skill (Communication skill, GD, Mock Interview) is conducted by T.I.M.E for the students of 4<sup>th</sup> year.

#### Grooming Activities

- Training programs on mathematical aptitude, Logical reasoning, Vedic Mathematics and soft skill is being conducted by *Empowered Edu.* and *Shivam Knowledge Solutions* for the students of 3<sup>rd</sup> year
- Training program for Linguistics & communication skill development for the students of 2<sup>nd</sup> year is conducted by *British Council*.

#### Inter College Chess Tournament

The first Inter College Chess Tournament under the flagship of WBUT Zonal Chess Meet 2011 was organized by and held at BPPIMT on 10<sup>th</sup> September 2011. The tournament for Zone III was held among various colleges of Murshidabad, Nadia and North 24 Pgs districts under WBUT. The tournament is recognized by West Bengal Chess Association. The organizing committee comprising of students and faculty members of our Institute worked hard to ensure a good response from students of colleges across West Bengal. The participants played according to the International rules set up by FIDE. They were also provided with food and offered lodging, the later applicable to students from outside the city. It was an enthralling battle of brains as the spectators waited with bated breath to greet the eventual maestro.



## FOCUS ON VARIOUS STREAMS OF BPPIMT

### DEPARTMENT OF INFORMATION TECHNOLOGY

Department of Information Technology has been an integral part of B. P. Poddar Institute of Management & Technology since the time of its inception. The department continuously strives to incorporate excellence in imparting knowledge to the students, based on their curriculum, as well as providing them with the concepts about the state-of-the-art tools, technologies and techniques in industry, as well as in the international research sphere. The department believes that this approach motivates the students in choosing research as a part of their career-path and seeds the thoughts of self development and self employment through entrepreneurship as their career option and helping the nation to move forward.

The department gives stress on the overall development of the students, so that, they are able to apply creatively their understanding of science and engineering principles to the solution of problems arising in whichever career path they choose, are sensitive to the environmental, social, safety and economic context in which their work is done, and possess a strong commitment to ethical practice within that context, and are able to communicate their ideas and positions clearly and concisely.

In brief, the mission of the Department of Information Technology (IT) is to provide competent instructions geared towards the development of responsible IT professionals equipped with skills and strong moral values, thus, becoming the preferred source of knowledge, services and manpower. To do this the faculty and staff members of the department continuously strive to reach excellence by engaging in cutting-edge, high-impact research, collaboration and interaction with computing industry, upgrading infrastructure and maintaining standards in all spheres.



Faculty and staff members of department of Information Technology

The department consists of 8 faculty members and 2 technical assistants under the leadership of Dr. Sabnam Sengupta, Associate Professor and HOD. The other seven Assistant Professors of the department are Mr. Kunal Das, Ms. Gitosree Khan, Mr. Balaram Ghosal, Mr. Sabyasachi Chakraborty, Ms. Swagata (Gayen) Kundu, Ms. Lipi Begum and Mr. Sudarsan Biswas. All of the faculty members of the department are M. Tech degree holders. One of them has Ph.D degree while Mr. Kunal Das is in the advanced stage of his Ph. D work. The technical assistants of the department are Mr. Joy Roy, MCA and Mr. Asis Kumar Bhunia, BCA.

The members of the department have approximately 50 publications in various refereed journals and conferences during the last five years. To mention a few activities of the department, other than research publications, Dr. Sabnam Sengupta has published a book and two book chapters. Her domain of research includes, Software Requirement Engineering, Formal Modeling, Software Architecture, etc. She is actively engaged in research and also mentors undergraduate and postgraduate projects at BPPIMT and University of Calcutta. She is a Ph. D supervisor at Jadavpur University. Dr. Sengupta is also a member of editorial board of a few international journals. She is a member of Operational Research Society of India, Kolkata Chapter. Mr. Kunal Das has research interest in Quantum Cellular Automata. He is a member of IEEE.



HOD conducting class

All the faculty members are M. Tech degree holders while one of them in PhD. One of the technical staff is MCA and the other being diploma holder. The department maintains approximately 1:20 teacher-student ratio. Along with their regular academic activities faculty members are also engaged with research activities. There are 3 books and about 45 publications in various journals and conferences of international and national repute. Most of the members of the department are also actively engaged in administrative activities of both the Institution and the department in addition to their regular academic and extra-curricular duties. Many of the alumni of the department are placed in reputed positions. Some of them are pursuing higher studies in Institutions of International repute like, Ms. Sayantika Sikdar a graduate of 2008 is doing her MBA at the Drexel University, Pennsylvania, Philadelphia, USA and Mr. Surjyundu Ray of 2009 batch is doing his MS-PhD at the Florida State University.

The department believes in taking lessons from past to help an organization to move forward in the positive direction. For that, the department plans to make the alumni to be a part of the success story, by creating an incubation center for them, where they can nurture their ideas and start moving ahead with their dreams and also by getting them involved in career counseling of the present students.

The aim of the department is to be a global center of excellence in education by providing instructions that are current in content and state-of-the-art in delivery; by engaging in cutting-edge, high-impact research; and by aggressively taking on present-day global concerns.



- **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 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: newsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.