



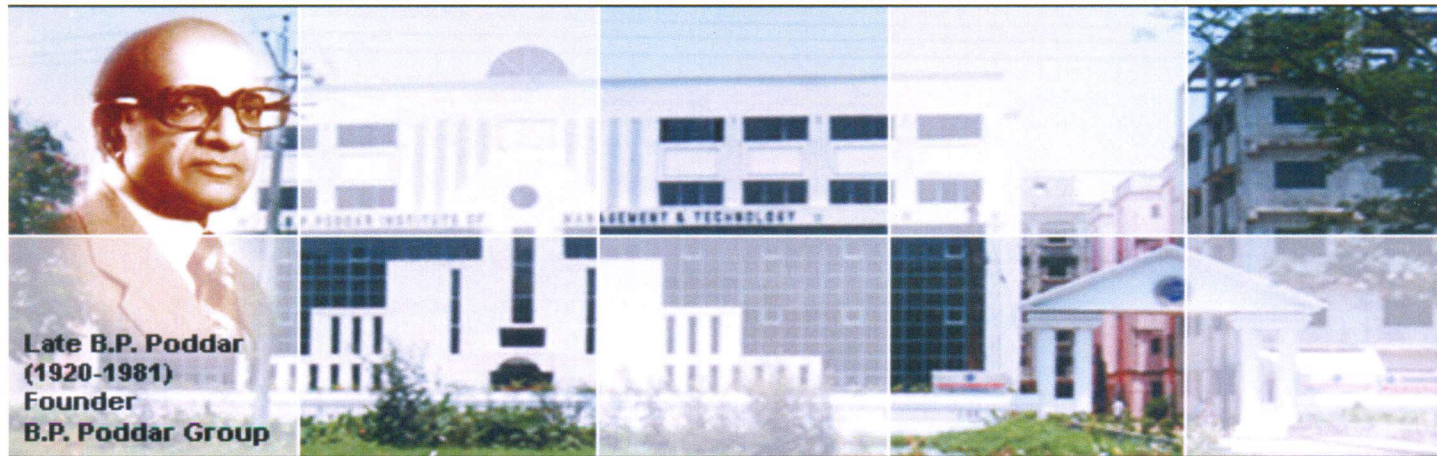
THE BPPIMT - NEWSLETTER

A Quarterly In-House Magazine
of

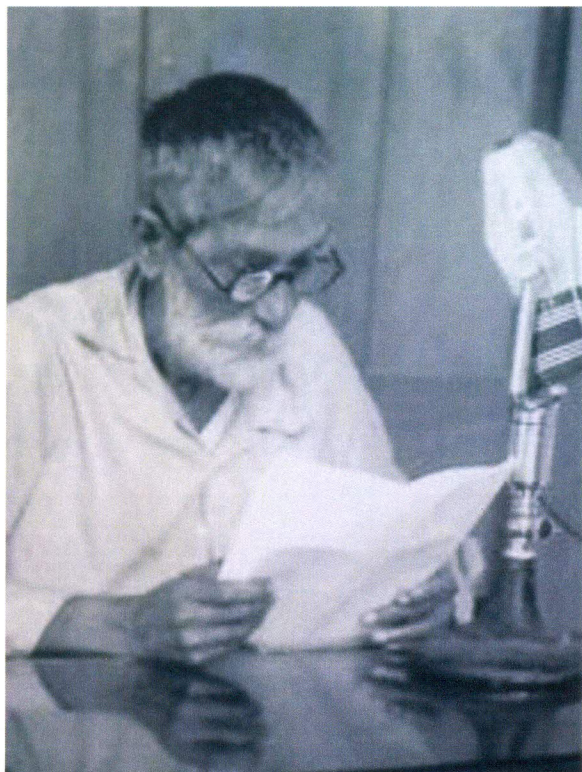
B.P. Poddar Institute of Management and Technology

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Issue - IX, October 2010 Chief Advisor: Prof (Dr.) Sutapa Mukherjee Editor in Chief: Prof Emeritus (Dr) S.C. Chakravarty,
Prof (Dr) B. N. Chatterjee



**On 150th birthday the BPPIMT respectfully paying homage to Acharya
Prafulla Chandra Roy The great scientist & Entrepreneur India ever had.**



As Head of Chemistry Department at the Presidency College, as a scientist, as an entrepreneur and a founder of Bengal Chemical and Pharmaceutical Works, Acharya Prafulla Chandra Roy perhaps is the very first Indian who laid the foundation of a technologically and economically strong India with a strong background of Research and development in the field of science and technology. Rabindranath Tagore, when presiding over his seventieth birthday celebration, said:

It is stated in the Upanishads that The One said, 'I shall be Many'. The beginning of Creation is a move towards self-immolation. Prafulla Chandra has become many in his pupils and made his heart alive in the hearts of many. And that would not have been at all possible had he not unreservedly made a gift of himself. The glory of this power in Prafulla Chandra as teacher will never be worn out by decrepitude. It will extend further in time through the ever-growing intelligence of youthful hearts; by steady perseverance they will win new treasures of knowledge.

**"THE MORE AN IDEA IS DEVELOPED, THE MORE CONSIDERABLE BECOMES ITS EXPRESSION;
THE MORE A TREE IS PRUNED, THE BETTER IS THE FRUIT"**

-Alfred Bougeart

ACADEMIC NEWS:

FACULTY PUBLICATIONS

Books:

Mr. Pramathes Das of the Department of Electrical Engineering authored a book titled "Basic Electrical and Electronics Engineering" in July 2010.

Mrs. Sudipta Chakraborty, of the Department of Electrical Engineering published new edition of the book titled "Basic Electrical and Electronics" in September 2010 from Matrix Publishers.

Dr. Ananya Kanjilal, Assistant Professor of the Department of Computer Science, **Dr. Sabnam Sengupta**, Assistant Professor and Head of the Department of Information Technology and Prof. Swapan Bhattacharya, authored a book titled "Graph Based Analysis of Object Oriented Systems: An Integrated Approach", in July 2010 from Nova publishers, ISBN: 978-1-61728-615-5, 2010.[2].

Dr. Ananya Kanjilal, Assistant Professor of the Department of Computer Science, **Dr. Sabnam Sengupta**, Assistant Professor and Head of the Department of Information Technology and Prof. Swapan Bhattacharya, authored a book titled "Graph Based Analysis of Object Oriented Systems", chapter of "Horizons in Computer Science Research, Volume 1", in September 2010 from Nova publishers, ISBN: 978-1-60876-972-8, 2010.

Journals:

Mr. Arijit Saha, Assistant Professor of the Department of Electronics & Communication Engineering, Kallol Bhattacharya and Ajoy Kumar Chakraborty got their paper titled "*Three-element variable retarder for monochromatic light*" published in the International Journal: Optical Engineering, Vol. 49(7), 073004 (1-4) (July 2010).

Mr. Kunal Das, Assistant Professor of the Department of Information Technology and Mr. Debashis De published their paper titled "Characterization, Test And Logic Synthesis Of Novel Conservative and Reversible Logic Gates for QCA", in the International Journal of Nanoscience, of World Scientific, DOI No: 10.1142/ S0219581X10006594, Vol. 9.3, Page: 201-214, June 2010.

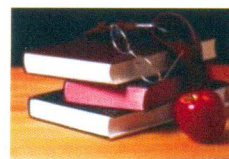


Mr. Dipankar Majumdar, Assistant Professor of the Department of Information Technology, **Mrs. Sabnam Sengupta**, Assistant Professor and Head of the Department of Information Technology **Mrs. Ananya Kanjilal**, Assistant Professor of the Department of Computer Science, Mrs. Swagata Kundu and Mr. Swapan Bhattacharya published their paper titled "A Mathematical Reusability Model for Quantifying the Reduction in Development Effort" at ACM Sigsoft Software Engineering Notes (SEN), July 2010.

Conferences:

Ms. Sudipta Chakraborty of the Department of Electrical Engineering presented a paper titled "Mathematical modeling for prevention of crack propagation in composite material" at Vestas technology Singapore in July 2010

Ms. Tista Banerjee of the Department of Electrical Engineering presented a paper titled "Offline optimization of PI and PID controller of vector control induction motor drive using genetic algorithm" at the International Conference ICEPES 2010 held at Maulana Azad National Institute of Technology during 26-28th August 2010.



Dr. Ananya Kanjilal, Assistant Professor of the Department of Computer Science, **Dr. Sabnam Sengupta**, Assistant Professor and Head of the Department of Information Technology and Prof. Swapan Bhattacharya presented their paper titled "Scenario Path Identification in Distributed Environment: A Model Based Approach" and published it in the proceedings of 21st IEEE Symposium on Rapid System Prototyping (RSP 2010), Fairfax, VA, June 8-11, 2010.

Participation:

Ms. Nandita Sanyal, of the Department of Electrical Engineering attended one day workshop on Matlab application in Digital Signal Processing on 24th August 2010.

Ms. Sutapa Mukherjee, of the Department of Electrical Engineering attended one day workshop on Matlab application in Digital Signal Processing on 24th August 2010.

Ms. Tista Banerjee of the Department of Electrical Engineering attended one day workshop on Wavelet transform at Dept. of Applied Physics (CU) on 27th September 2010.

INSTITUTIONAL NEWS:

FACULTY SEMINAR PROGRAM "PROSARON"

Dr. Soumya Shankar Basu, Senior IT Architect, IBM India delivered a talk on "Architecting for Non functional Requirements" on 24th July 2010 at the Institute Seminar Hall. This program is an extension of the faculty seminar program held at BPPIMT.

NEW HEAD OF THE DEPARTMENT

Dr. Ranjana Goswami took charge of the Engineering Physics department as the Head on 4th August 2010.

SPIE STUDENT CHAPTER

The SPIE student chapter was established in the ECE department of BPPIMT on 6 August 2010. Prof (Dr) Shila Ghosh, HOD ECE department is the faculty advisor for the chapter. The chapter is inaugurated with 21 student members. The chapter held an election and elected Mr. Soumik Bhattacharya (4th year ECE) as President and Mr. Subhankar Das (4th year ECE) as Vice-President. The other office bearers are Mr. Harshit Kumar (Secretary), Ms. Kabita Paul (Assistant Secretary), Mr. Kunal Mandal (Treasurer), Mr. Nasib Ullah (Web Master) and Mr. Nazimul Islam Gazi (Membership coordinator). The Inauguration program was attended by all the student members of SPIE. Prof (Dr.) S. C. Chakravarty, Prof. (Dr.) B. N. Chatterji, Prof. (Dr.) Sutapa Mukherjee, Prof. (Dr.) Shila Ghosh, the HODs of all other departments and all the faculty and Technical staffs of ECE department participated in the program.

QUIZ COMPETITION "GREY MATTER"

Annual quiz competition for the students "GREY MATTER" was held on 21st August 2010. This annual competition is organized each year by the alumni of BPPIMT. Like each year the function became a grand success. The students as well as the staffs of the Institute enjoyed the event.

ORIENTATION PROGRAM FOR 1ST YEAR B.TECH STUDENTS

On 24th August 2010 the orientation program for 1st year B.Tech students was held at institute seminar hall. The new students were addressed by the Principal, Dean, Registrar and all the HODs of the Institute. The students of each discipline were also taken to their respective departments where they were familiarized with the departmental members and the laboratories, their classrooms etc.

FOUNDATION DAY CELEBRATION

The 12th foundation day of the Institute was celebrated on 11th September 2010. The function was attended by the Principal, Dean, Registrar, faculty members of different disciplines and administrative staffs. Photograph and statue of Late Shri B P Poddar, the founder of B P Poddar group was being garlanded and the program was ended on a high note. On this occasion we remember with profound respect and regards the founder of the group Late Shri B P Poddar who was not only an eminent industrialist but also an educationist and founder of many social service units like B P Poddar Hospital etc. We are proud to be part of one of his groups. It will be our endeavor to give all our sincere most efforts and hard work to see that our institute rises to higher stages.

ONE DAY INDUSTRIAL VISIT

A one day industrial visit for the members of the student chapter of SPIE was organized on 26th September 2010. The visit was at CGCRI. About 20 members participated in the program. The visit was a success and the students gained a lot of technical knowledge from the program. This was the first activity of the SPIE student chapter of the ECE department.

PRE-PLACEMENT ACTIVITIES

- An orientation program was held by CTS on 21st August 2010 for the final year students.
- An interactive session was held by Mr. Tanvir Singh, Regional Recruitment Lead East & North east India, Infosys Technologies Ltd. on "Awareness about the Corporate Requirements" on 24th August 2010.
- A workshop was held by TCS on 27th August 2010 for the final year students.

ROBO WAR

The event ROBO WAR at RCCIIT, Kolkata was held from 29th September 2010 to 1st October 2010. Mr. Deepak Kumar, Mr. Jaiween Singh, Mr. Naman Singhal and Mr. Tanmoy Saha students of 3rd year Computer Science and Engineering department have secured 3rd place in ROBO WAR. This was a part of the Inter College Tech fest.

FOCUS ON VARIOUS STREAMS OF BPPIMT BASIC SCIENCES & HUMANITIES DEPARTMENT

DEPARTMENT OF ENGINEERING PHYSICS

One of the most important basic sciences departments is the Engineering Physics Department. In fact Physics is known as the mother science of technology, because all the technical theorems are based on laws of Physics. The Engineering Physics department is headed by Dr. Ranjana Goswami, Ph.D (SINP), Asst. Professor and guided by Prof. S.C.Chakravarty (Emeritus Professor). In addition the dept. consists of 4 Asst. Professors - Dr. Lipika Adhya, M.A. (Newyork), Ph.D (JU), Dr. Papri Saha, Ph.D (J U), Dr. Uddipan Mukherjee, Ph.D (TIFR) and Dr. Esa Bose, Ph.D (J U). The department has 1 technical assistant - Mr. Nirupam Dutta, M.Sc. The department is actively engaged in different research works. Presently Dr. Lipika Addya is carrying out a project under SERC; Department of Science and Technology, Govt. of India as Principal Investigator. Dr. Papri Saha is also engaged as the co-investigator of a CSIR funded major project in collaboration with Jadavpur University. The department is currently engaged in research activities like calculation of nuclear structure for nuclei close to proton drip line which has got important astrophysical significance, the electrical and transport properties of the nanocomposite of graphite and SWCNT in clay.



Students working in Physics Lab.

The total publications of the faculty members in various refereed journals and conferences are more than 80. During the summer of 2010, Dr. S.C.Chakravarty a fellow of the Institute of Electronics and Telecommunication Engineers and member of Indian Physical Society, Indian Science Congress Association, Plasma Society of India and Indian Society of Technical Education, visited USA, Canada and interacted with the Physics Departments of University of Windsor and University of Ottawa (Canada) for initiating research collaboration in the field of nanotechnology.

DEPARTMENT OF ENGINEERING CHEMISTRY & ENVIRONMENTAL SCIENCE

This department under the guidance of Prof. Dr. Sandip Ghosh, HOD, M.Sc., Ph.D. (C.U.) impacts a solid foundation of the subject to the engineering students of our institute in a scientific process so that they can develop professional attitudes along with their academic knowledge. In addition, the department has two Assistant Professors - Dr. Rupa Pal, M.Tech (C.U.), Ph.D. (Kalyani University) and Dr. K. Pravakaran, M.Sc., M.Phil., Ph.D. (Madras University). The department also has one technical assistant Mr. Palash Nandi and one lab assistant Mr. Lakshmi Kanta Jana. The department with a well equipped laboratory educates the B-Tech and MCA students as per syllabus of WBUT with an aim of providing basic knowledge of chemistry and environmental sciences. The department participates in institutional activities such as workshops and seminars. Most excellent strength of the department is the well equipped laboratory for providing practical classes and also research work. Members of this department are engaged actively in research works. Faculties of the department have published more than 25 publications in reputed national and international forums.



Students working in Chemistry Lab.



Students engaged in mechanical workshop.



Language Lab

DEPARTMENT OF MECHANICAL ENGINEERING

The mechanical engineering department has four faculty members Mr. Binoy Krisna Biswas, M.Tech, pursuing PhD, (published a book and a research paper), Mr. Samir Chakravarti, ME (published two research papers), Mr. Amal Mondal, ME and Mr. Sanjoy Sarkar, B.Tech. The department has seven well equipped laboratories viz. machine shop with latest machines like shaping, lathe etc., tool room, carpentry shop, fitting shop, welding shop and foundry, and two engineering graphics lab. The department consists of 5 technical assistants Mr. Arupratan Bera (D.M.E), Mr. Saptarshi Barat (D.M.E), Mr. Atanu Banerjee (D.M.E), Mr. Anil Datta (B.A) and Mr. Angsuman Paul (NCVT, B.A).



DEPARTMENT OF MATHEMATICS

Mathematics department of BPPIMT provides a solid mathematical background for the students, which is most essential for engineering students of all the streams. The department has five highly qualified and dedicated faculty members Mrs. Kakali Karmakar (Sur), pursuing PhD (BESU), Mr. Debabrata Das, M.Sc (JU), Ms. Rikhiya Dhar, pursuing PhD (CU), Mr. Rajen Dey, M.Sc (JU) and Dr. Oshmita Dey, PhD (IIT, KGP).

DEPARTMENT OF HUMANITIES & MANAGEMENT SCIENCES

The department has four Assistant Professors - Ms. Kakali Bhattacharya (MA), Ms. Sucharita Sinha (M.A, M.Phil), Ms. Dolon Champa Das (M.A, M.Phil) and Mr. Abhijit Gupta (B.A, MBA). A well equipped language lab is being run by the department, and also the department arranges periodical debates, group discussions and seminars.

ALUMNI THE AMBASSADORS OF BPPIMT

Regular meetings provide opportunity for alumni to get together and to catch up on the latest news from BPPIMT and its continuous development piloted by the Principal, the Dean and the Heads of all the departments. Besides the alumni working in various organizations like Alstom, Electricity Boards, Telecom Industries, Core Electronics Industries, IT firms like Infosys, Cognizant, Wipro, TCS, etc, alumni from USA and UK also made a point to visit the Institute.

Alumni advisors provide a valuable service for next generation students acting as an important point of contact for questions about how profitable in terms of acquiring knowledge from ever-helping faculties and their high standard of teaching with disciplined care and counseling to be useful to get good prospects at home and abroad.

STUDENT'S CONTRIBUTION

HOW HOT IS SUN?

The sun is hottest at its centre, where the temperature is believed to be about 15 million degrees centigrade. By the time this heat has worked its way to the surface, it has fallen to 6000 degrees about four times as hot as a steel furnace.

WHAT ARE VIRUSES & BACTERIA?

Viruses & bacteria are the smallest living things; viruses have no cell walls and can only work properly inside the cells of other living organisms. Bacteria are larger than viruses and can exist by themselves. A virus is made up of a protein coat wrapped around a small amount of DNA or RNA. It can reproduce itself but only when it is in a living cell. Viruses are, therefore on the borderline between living and nonliving things. When they invade cells they usually cause disease. Bacteria are tiny, singled cell organism. Some are round, others are rod-shaped and some even look like cork-screws.

NOTE: Some bacteria cause disease but many others are useful. A larger number feed by breaking down dead plant and animal matter. They release chemicals into the soil that can be used by plants.

- Shebasis Das (4th year EE)

- **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.