



THE BPPIMT - NEWSLETTER

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of

B.P. Poddar Institute of Management and Technology

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Remembering Sir Chandrasekhara Venkata Raman on his 127th Birth Anniversary



Chandrasekhara Venkata Raman, popularly known as C.V. Raman, was not only a great scientist but also believed in the promotion of human well being and human dignity. C.V. Raman was born on 7th November 1888 in Tiruchirapalli, in Tamil Nadu. His father was a professor of Physics and Mathematics. Even in his childhood, he was popular as a child genius.

He stood first in the Indian Audit and Accounts (IAAS) Examination and was appointed as Assistant Accountant General in the Finance Department in Calcutta at the age of nineteen. In 1917, Raman resigned from his government service after he was appointed the first Palit Professor of Physics at the University of Calcutta. At the same time, he continued doing research at the Indian Association for the Cultivation of Science (IACS), Calcutta, where he became the Honorary Secretary. Raman used to refer to this period as the golden era of his career. In 1924, he was made Fellow of the Royal Society.

On 28th February 1928, Raman led experiments at the IACS with collaborators, including K. S. Krishnan, on the scattering of light, when he discovered what now is called the Raman Effect. Raman spectroscopy came to be based on this phenomenon, and Ernest Rutherford referred to it in his presidential address to the Royal Society in 1929. Raman was President of the 16th session of the Indian Science Congress in 1929. He was conferred a knighthood, and medals and honorary doctorates by various universities.

He won the Nobel Prize in Physics for his work on the scattering of light and for the discovery of the Raman Effect in 1930. Besides this, Raman and Suri Bhagavantam discovered the quantum photon spin in 1932, which further confirmed the quantum nature of light. Raman also worked on the acoustics of musical instruments. He worked out the theory of transverse vibration of bowed strings, on the basis of superposition velocities. He was also the first to investigate the harmonic nature of the sound of the Indian drums such as the tabla and the mridangam. He was also interested in the properties of other musical instruments based on forced vibrations such as the violin. He also investigated the propagation of sound in whispering galleries. Raman and his student, Nagendra Nath, provided the correct theoretical explanation for the acousto-optic effect (light scattering by sound waves), in a series of articles resulting in the celebrated Raman-Nath theory. Modulators, and switching systems based on this effect have enabled optical communication components based on laser systems. In 1933, Raman left IACS to join Indian Institute of Science in Bangalore as its first Indian director. Raman retired from the Indian Institute of Science in 1948, and a year later established the Raman Research Institute in Bangalore, Karnataka. He served as its director and remained active there until his death in 1970, in Bangalore, at the age of 82.

ACADEMIC NEWS:

Publications:

Journals (with Impact Factor):

Soumya Paul, Sudipto Bhattacharyya, "Implementation of network security using neural network architecture", *International Journal of Computer Science and Mobile Computing*, **4** (6), pp. 815-821 (June 2015), Impact Factor (ISRA): 2.417, Impact Factor (IIFS): 2.136, Impact Factor (UIfactor): 1.0148, ISSN-2320-088X.

Inadyuti Dutt, "Issues in delay tolerant networks: A comparative study", *International Journal of Advanced Research in Computer Science and Software Engineering*, **5** (6), pp. 534-542 (June 2015), Impact Factor: 2.5, ISSN: 2277-128X.

Surajit Mandal, Subhrajyoti Dutta, Soham Chatterjee, Subhadip Karar, Subhankar Banerjee, "A novel technique for image steganography using DWT", *International Journal of Advanced Research in Computer Science and Software Engineering*, **5** (6), pp. 854-858 (June 2015), Impact Factor: 2.5 ISSN: 2277 128X.

Papri Saha, D. C. Saha, A. Ray, A. R. Chowdhury, "Memristive non-linear system and hidden attractor", *The European Physical Journal Special Topics*, **224**, pp. 1563-1574 (2015), Impact Factor: 1.399, ISSN: 1951-6355 (Print) 1951-6401 (Online).



Journals (online):

Binoy K. Biswas, Asish Bandyopadhyay, Pradip K. Pal, "Microstructure and microhardness of fluxcored arc-welded joints for boiler quality steel", *The International Journal of Advanced Manufacturing Technology*, **78**, pp.5-8, (May 2015), Impact Factor: 2, ISSN 0268-3768 (online publication).

Dolon Champa Das, "Games & activities: techniques for teaching english in a fun-filled environment", *International Journal of Innovation Science and Research*, **4** (6), pp. 228-231, (June 2015), ISSN: 2319-9369 (online publication).

Conferences:

Sahabul Alam, Debashis De, **Anindita Ray**, "Analysis of Energy Consumption for IARP, RIP and STAR Routing Protocols in Wireless Sensor Networks", in *Proc. Second International Conference on Advances in Computing and Communication Engineering (ICACCE)*, 1-2 May 2015, Dehradun, India, pp.11-16, Publisher: IEEE, ISBN 978-1-4799-1734-1/15.



Debarati Dey, Pradipta Roy, Debashis De, "Molecular modelling of nano bio p-i-n FET", in *Proc. 19th International Symposium on VLSI Design and Test*, 26-29 June 2015, Ahmedabad, India, pp. 1-6, Publisher: IEEE, ISBN: 978-1-4799-1742-6..

INSTITUTIONAL NEWS:

Participation

Abhijit Bhattacharyya, "Stability of a perfectly conducting viscoelastic Maxwell fluid with continuous viscosity & density stratification in presence of a horizontal magnetic field", presented at International Conference on Recent Trends in Mathematics and its Applications (ICRTMA), 18-19th March, 2015, Midnapur, India.

Barnik Mandal, student of Department of ECE, and current President of SPIE Student Chapter, BPPIMT attended the SPIE Optics & Optoelectronics Conference 2015, at Prague this April.

Best Faculty Award

Dr. Arijit Saha, Associate Professor, ECE Dept. has been awarded the Best Faculty Award by Cognizant Technology Solutions for the year 2014-15.

Texas Instruments India Analog Design Contest 2015



To promote innovation among engineering students, Department of Electronics & Communication Engineering of B. P. Poddar Institute of Management and Technology, organized an Analog Circuit Maker Competition on 17th April, 2015 in association with Texas Instruments. The competition was open to different colleges where B. P. Poddar Institute of Management and Technology has

been selected for conducting the college level competition based on continued interest in university program activities. Total one hundred and fifty students participated in the competition this year. The competition was organized in the last year also.



University Semester Exam

The semester examination of WBUT was held successfully from 26th May - 8th June 2015. The Practical Examination was conducted during 12-20th May, 2015. Ms. Nandita Sanyal, Associate Professor, Department of Electrical Engineering was the officer-in-charge, and Mr. Arindrajit Chowdhury, Assistant Professor, Department of Electronics & Communication Engineering; and Mr. Sudip Kundu, Assistant Professor, Department of Computer Science & Communication Engineering served in the capacity of supervisors.

Condolence Meeting

A condolence meeting in memory of our beloved student Md. Jamanur Hossain was held on 23rd May 2015 at the Institute Seminar Hall. He was a student of the Department of Computer Science & Engineering. May his soul rest in peace.

Wall Magazine



Students of Dept. of Computer Application published its Wall Magazine KALEIDOSCOPE 5.0 in April 2015 under the guidance of Dr. Soumya Paul, Associate Professor and Head, Mr. Abhijeet Bhattacharyya, and Mr. Arijit Dey, Assistant Professors of the Department. The Wall Magazine was inaugurated by the Honorable Principal Prof. (Dr.) Sutapa Mukherjee in the presence of faculty,



staff member and students of CA Dept.

PATW 2015



The inauguration ceremony of PATW-2015 was held in our Institute on 2nd May 2015. 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 competition was organized by IET YP Section Kolkata Local Network from 2nd May to 18th July 2015. Two Engineering Colleges of West Bengal have been selected as venues of Technical Session. Prof. (Dr.) Sutapa Mukherjee, our Principal is a member of the Advisory panel and Ms. Tista Banerjee, Assistant Professor; Dept. of

Electrical Engineering was present as organizing chair of the Regional Level Programme. More than fifty students of BPPIMT took part in the competition. Among them Nayanranjan Das (EE 3rd Year), Mainak Mitra (EE 2ndyr), Avijoy Sen (EE 2ndYr), and Sounak Chandra (CSE 3rdyr) have been short listed for participation at National Level competition.

Training

Soft skill development training and technical training for the 3rd year B. Tech and 2nd year MCA students started from 7th April, 2015 and 17th April, 2015 respectively. This is organized by the Institute to groom the students and make them ready to face the challenges of the Industry.

Digital India Week

Digital India Week, which was observed during 1st -7th July, 2015 was celebrated on 7th July, 2015 at the Institute Seminar Hall. The speech of the Prime Minister of India had been repeat telecasted. A technical lecture was delivered on Cyber Security by Mr. Abhirup Chowdhury, Cloud Computing & CRM consultant.

Pre-Counseling Activities 2015

This year the pre-counseling session for the admission of students in B. Tech course was held at the Netaji Indoor Stadium, Kolkata, during 14th to 16th June, 2015. The pre-counseling team of BPPIMT consisting of faculty members and administrative staffs worked sincerely to draw the attention of bright young students to our Institute to ensure good quality input.



FOCUS ON VARIOUS STREAMS OF BPPIMT

DEPARTMENT OF COMPUTER APPLICATION

The Department of Computer Application of B. P. Poddar Institute of Management & technology garners the Post-Graduate programme in Computer Application affiliated to Maulana Abul Kalam Azad University of Technology formerly known as West Bengal University of Technology.

The Department emphasizes value based quality education in the field of Computer Applications. With total intake of forty students, the department boasts one among the best value-added education, discipline and dedication. The department comprises of seven faculty members headed by Dr. Soumya Paul. The department also has two competent technical staff members.



The department believes in quality teaching and educational standards. The faculty members lay strong foundation in research and development. The departmental faculty members are engaged in wide variety of research domains such as Cryptography, Network Security, Wireless Sensor Networks, NanoTechnology, Search-based Optimization Technique, Turbulence Theory and Intrusion Detection, to name a few.

The department has two sophisticated, high-end laboratories which host advanced softwares for programming of computer and its applications. The laboratories are enabled with Campus LAN, which is connected through high-speed Fiber Optic

and Wi-Fi zone. The students are provided with 1:1 ratio of PC facilities and 24 × 7 round the clock Internet leased line for inter and intra campus accessibilities.

Department of Computer Applications has hosted several seminars/workshops and invited talks. The department constituted the 77 students' membership of Student Branch of Computer Society of India under able guidance of CSI, Kolkata Chapter in 2012. It is also the Institute member of CSI in 2014-15 session.

Several eminent professors and stalwarts from academia and industry like Prof. Debesh Das, ex-Information and Broadcasting Minister, West Bengal, Prof. Dipti Prasad Mukherjee, ISI, Prof. Susanta Sen, Calcutta University, Dr. Debashish Jana, and Mr. Susanta Sinha, TCS have graced the CSI students programme on several technical seminars.

Department of Computer Applications in collaboration with Computer Society of India (CSI) has also hosted a half-day programme on Intellectual Property Right (IPR) with IPR founding member, Mr. Utsab Banerjee in 2012.

The Department in collaboration with Computer Society of India (CSI) organized a one-day workshop on Electronics System Design and Manufacturing (ESDM'13) workshop on 30th October, 2013. Students of Department of Computer Application and Electronics and Communication Engineering actively participated for the workshop, ESDM'13 in the Institute's premises. The students were immensely benefited by the workshop as they visited an electronic industry, G. P. Tronics in the second-half of the day. They could get a first hand view of the inverters and other electronic devices manufactured, designed and tested.



The Department of Computer Application published hard copy Magazine "Tavish" and regularly publish Wall Magazine, where budding poets and painters show their talent.

The students of Computer Applications have left no stone unturned in pursuing academics with par excellence. Ms. Surupa Baidya earned a Gold Medal in Master's in Computer Applications, as a University topper of WBUT in 2010. Mr. Arjun Bhattacharya was placed second in the University in 2009 and bagged Silver Medal for the same. The students of the department have been recruited to major IT giants like Oracle Corporation, IBM, Cognizant, Tata Consultancy Services, Tech Mahindra etc. to name a few. The students are placed all over India and abroad.

Besides these, the students, have developed and implemented a Library Management Software under the guidance of Mr. Subhasis Mallick, Asst. Professor of the Dept, which has been running successfully in the Institute Library.

- **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members with Prof. (Dr.) B.N. Chatterji, Dean Academics as the Chief Editor, Prof. (Dr.) Sutapa Mukherjee, Principal as the Chief Advisor and Dr. Arijit Saha Associate Professor as the 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: bppimtnewsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.