HETC Chronicle

Hooghly Engineering & Technology College

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e-Newsletter Committee

Campus News

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Prof. Shyamal Pal

Prof. Rupam Some

Co-opted Member:

Mr. Shyamal Maji

- The Annual Sports Meet was held on 8th February, 2014 at the college ground.
- The Annual College Festival **'CONFLUENZA'** was held at the Aqua Marina on 21st February, 2014.
- The Annual Cricket Tournament was held during the period 25th February, 2014 to 8th March, 2014. 3rd year Electronics & Communication Engineering was the winner.

Events Organized

- A lecture of the Civil Engineering Entrepreneurship Development cell was delivered by Mr. Samik Sen on 12th February, 2014.
- An Awareness Camp on **Thalassaemia** by Ranaghat Thalassaemia Screening centre (under Department of Health and Family Welfare, Govt. of WB) was held on 21st March, 2014 in the college premises, in which **Thalassaemia detection test** was done. About 250 students participated in the programme.
- An Awareness and Sensitisation Programme on **Child Sex Ratio** was conducted by Red Cross Society of India, Chandernagore Branch on 22nd March, 2014 in the college premises. About 100 students participated in the programme.
- The Computer Science & Engineering Department organized a one-day techfest 'COMP FIESTA, 2014' on 4th April, 2014. Several coding and computer gaming competitions were organized as part of the event.
- World Health Day was observed in the college on 9th April, 2014 through **Anti Tobacco Campaign**.
- A **Blood Donation Camp** was held in the college on 12th April, 2014.
- The first **Annual General Meeting and Reunion** of the **Alumni Association of H.E.T.C.** was held on Sunday, 4th May, 2014.

Upcoming Event

The college is going to celebrate the 10th anniversary year in August, 2014. On the occasion there will be annual college lecture, seminar, debate, quiz competition and cultural program to be participated by faculty members, technical assistants, students, members of the staff and distinguish personalities from the area of teaching and other spheres.

Departmental Academic Activities

Electrical Engineering Department

• One week workshop on Programmable Logic Controller was organized by Electrical Engineering Department, HETC and Robco Controls and System Pvt. Ltd, Kolkata-700001 from 28th January 2014 to 1st February 2014, for the Students of 2nd yr, 3rd yr and Final yr EE and ECE of HETC.

Computer Science & Engineering Department

• The Computer Science & Engineering Department organized a workshop on PHP in April, 2014. Around 40 CSE students attended the workshop.

Civil Engineering Department

• A news bulletin (CE NEWS) was published at the end of December, 2013. Next bulletin will be published in the first week of July, 2014.

Seminars organized

Mechanical Engineering Department

- On 20th December 2013 Prof. Suprio Roy, Asst. Professor of Mechanical Engineering Department had given presentation on "Fractal dimension optimization of electro-less Ni-P-Cu coating using ABC (artificial bee colony) algorithm".
- On 8th April 2014 Prof. Abhijit Dutta, Asst. Professor of Mechanical Engineering Department, presented Lecture on "Constructional Theory of Nature".
- On 10th April 2014 Prof. Smitadhi Ganguly, Asst. Professor of Mechanical Engineering Department, presented a seminar on "Application of Finite Element Method in Solid Mechanics Analysis".
- On 2nd May 2014 Prof. Rajib Kumar Mandal, Asst. Professor of Mechanical Engineering Department, presented a seminar on "Experimental Evaluation of High frequency pulse current TIG welding over simple filler rod TIG welding".

Electronics & Communication Engineering Department

- Prof. Mihir Dam, ECE Department delivered seminar on "Recent development on μ-strip Antenna" on 1st February 2014.
- Prof. Subhojit Malik, ECE Department delivered seminar on "Fuzzy Logic and its applications" on 6th March 2014.
- Prof. Biswajit Basak, ECE Department delivered seminar on "Multi-core Architecture" on 6th May 2014.

Computer Science & Engineering Department

- Mr. Sandeep Bhowmik delivered presentation on the topic "CDN in Cloud Computing" on 1st February, 2014.
- Mr. Rupam Some delivered presentation on the topic "Prediction of Routing Path in WSN" on 13th February, 2014.
- Mr. Dibyendu Samanta delivered presentation on the topic "A Novel Method for Information Hiding using LSB Steganography" on 13th February, 2014.
- Mr. Manab Saha delivered presentation on the topic "Introduction to Pipeline Processor" on 25th February, 2014.
- Mr. Sumanta Daw delivered presentation on the topic "Digital Image Analysis" on 25th February, 2014.

- Mr. Shyamal Pal delivered presentation on the topic "Virtual Reality" on 2nd April, 2014.
- Mr. Milan Kumar Dholey delivered presentation on the topic "Reduction of blockage node of CSMA/CA MAC Protocol" on 2nd April, 2014.
- Mr. Swapan Kumar Maiti delivered presentation on the topic "NP-Completeness" on 28th April, 2014.
- Mr. Subhajit Roy delivered presentation on the topic "Denavit Hartenberg Principles in Robotics" on 28th April, 2014.

Civil Engineering Department

- A lecture on the topic of "Undrained Shear Strength of Soil" delivered by Prof. Ratanmani Chakraborty on 24th May, 2014.
- A lecture on the topic of "Strengthening of Concrete Structure by Using Glass Fiber Reinforced Polymer (GFRP)" delivered by Prof. Arpita Das on 24th May, 2014.

General Science & Humanities Department

- Prof. Abir Bandyopadhyay delivered a lecture on 'Quantum Elliptical Vortices' at the first Departmental Seminar of General Science & Humanities Department on 1st February, 2014.
- Prof. Arup Maiti delivered a lecture on 'Organizational Effectiveness' at the second Departmental Seminar of General Science & Humanities Department on 3rd March, 2014.
- Prof. Subham Ganguly delivered a lecture on 'Decoding Print Advertisements in the Indian Context' at the third Departmental Seminar of General Science & Humanities Department on 29th March, 2014.
- Prof. Rajesh Patra delivered a lecture on 'A Quicker Method for Squaring a Number' at the fourth Departmental Seminar of General Science & Humanities Department on 26th April, 2014.

Students' Achievements

• List of students who have qualified in GATE-2014 from the Civil Engineering Department

Sl. No.	Name	Gate Score	All India Rank
1	Rakesh Kumar	518	3880
2	Samir Asif Quraishi	481	5102
3	Rohit Ranjan	470	5430
4	Rahul Biswas	352	12517

List of students of Civil Engineering Department who cleared GATE-2013 and are undergoing PG course

Sl. No.	Name	Admission Taken in	Subject
1	Pubali Mandal	BESU	Environmental Engg
2	Satyajit Mandal	BESU	Transportation Engg
3	Sourav Hazra	BESU	Structural Engg
4	Sudip Bera	BESU	Environmental Engg
5	Sudipta Naskar	BESU	Structural Engg
6	Tirthanlkar Chakraborty	IIT,Kanpur	Environmental Engg
7	Swaraj Chowdhuri	NIT,Rourkella	Geotechnical Engg

• List of students who have qualified in GATE-2014 from the Mechanical Engineering Department

Sl. No.	Name	Sl. No.	Name
1	Saikat Das	2	Vivek Kumar
3	Priyam Das	4	Gautam Kumar
5	Avinash Kumar	6	Md. Noor Alam
7	Totan Roy	8	Sunil Kumar
9	Uttam Kumar Mahato	10	Rohit Kumar Mallah

• List of students who have qualified in GATE-2014 from the Electrical Engineering Department

Sl. No.	Name
1	Soumendu Bhattacharjee
2	Soumen Rej
3	Rupam Shyamal

• List of students who have qualified GATE-2014 from Electronics and Communication Engineering Department

Sl. No.	Name
1	Abhishek Barik
2	Dhiman Sanyal
3	Subhajit Mukherjee
4	Shubam Kumar Saha
5	Oishee Mandal

Students' Participations

- Palash Dutta and Sayantan Chakrabarty of 4th Year ECE Department presented the paper titled "A Comparative Performance Analysis after Tuning PID Parameters using Genetic Algorithm and Biogeography Based Optimization" in the Proceedings of First National Conference on Emerging Trends in Engineering and Sciences (ETES 2014), McGraw Hill Education Sponsored, IEEE and IETE Co-sponsored, 30 -31 January, 2014, Asansol, West Bengal, India, pp: 528-536, ISBN-13: 978-93-392-0316-0
- Gairik Chakraborty, participated in the event Gamierta FIFA at Fest TechFIESTA'14 held on 24-25 January, 2014 at AOT, Kolkata & secured 1st position.
- Oishee Mondal, Saswati Halder, Debarshee Bhowmik and Arinima Saha presented a research paper on 'A comparative study on optimized bias current density performance of β-GaN Avalanche Transit time diode at Kaband and Terahertz frequency' at ICRAPID-2014 held on 23-24 January, 2014, in Chennai.
- Dhiman Sanyal, Indrajit Das, Pranoy Barman and Tanumoy Sarkar presented a research paper on 'Studies on Noise measure ratio in Heterojunction and Homojunction Avalanche Transit time diode at W-band and window frequency' at ICRAPID-2014 held on 23-24 January, 2014, in Chennai.
- A. Praneet Kumar, Darshan Mangar, Rupam Some "Prediction of Routing Path Using Predictive Routing for Mobile Nodes in Wireless Sensor Network" published in National conference on Emerging Trends in Enineering and Science,organized by Asansol Engineering College(sponsored by IEEE Kolkata chapter and IETE) on 30 -31 January, 2014.
- Gairik Chakraborty, participated in Aarohan 2014, the National Level Annual-Management Fest of NIT, Durgapur held on 06-09 January, 2014.

• Ritwika Banerjee, Aritra Kanjilal & Pradeepta Chattapadhyay participated in 'Antakshari Competition' held at DoorDarshan Kendra, Kolkata.

Faculty Participation

- Prof. Shamik Ghosh attended a Two Week ISTE Workshop on "Fluid Mechanics" Under the National Mission on Education through ICT, MHRD, New Delhi, at the remote centre IIEST (Bengal engineering and Science University), Shibpur premises, form 20th May, 2014 to 30th May, 2014.
- Mr. Anindya Banerji, JRF, DST Project SR/S2/LOP-0002/2011, attended "31st Jerusalem Winter School on Theoretical Physics" during 23rd December, 2013 and 10th January, 2014 at Hebrew University of Jerusalem, Israel.
- Prof. Anikendu Maitra and Prof. Sandip Das, Deptt. of Electrical Engineering have attended two days workshop on "Promotion of rooftop solar photovoltaic system in the state of West Bengal" at CEGESS, BESU on 6th & 7th February 2014.
- Prof. Piyali Das, Prof. Arpita Das; Miss Tonima Das; Mr.Sudipta Kansabanik attained a short term course on the topic of Total station at NITTTR on 6th January, 2014 to 10th January, 2014.
- Prof. Arpita Das attained a workshop on the topic of "Earthquake Resillience City" at N.I.T. Durgapur on 24th December, 2013 to 28th December, 2013.
- Prof. Tanumoy Ghosh attained a workshop on the topic "Advances in the design & construction of Bituminous pavements" at IIEST Shibpur on 27th May, 2014 to 28th May, 2014.
- Prof. Sandeep Bhowmik of CSE Department, attended 2-week Faculty Development Program (FDP) from 6th January to 17th January 2014, organized by Enterprise Development Institute, Kolkata, W.B.
- Prof. Jagadish Bhattacharya, Prof. Subhojit Malik and Prof. Writi Mitra of Electronics and Communication Engineering Department attended 2 week ISTE workshop on "Signals & Systems" (under National Mission on Education through ICT (MHRD, Govt. of India)) from 2nd January, 2014 to 12th January, 2014.

Faculty Achivements

Prof. Rajdeep Paul, Prof. Tanumoy Ghosh, Prof. Piyali Das have enrolled for PhD in IIEST, Shibpur.

Publications of Faculty Members

Publications in Journals

International Journal

Electronics & Communication Engineering Department

- Subhojit Malik, Palash Dutta, Sayantan Chakrabarti, Abhishek Barman, "Survey on Biogeography Based Optimization Algorithm and Application of Biogeography Based Optimization to determine Parameters of PID Controller", in International Journal of Advanced Research in Computer and Communication Engineering, Vol. 3, Issue 2, February 2014, pp: 5625 5629, ISSN (Online): 2278-1021, ISSN (Print): 2319 5940
- **Subhojit Malik,** Palash Dutta, Sayantan Chakrabarti, Abhishek Barman, "Parameter Estimation of a PID Controller using Particle Swarm Optimization Algorithm", in International Journal of Advanced Research in Computer and Communication Engineering, Vol. 3, Issue 3, March 2014, pp: 5827 5830, ISSN (Online): 2278-1021, ISSN (Print): 2319 5940

- **Subhojit Malik,** Palash Dutta, Sayantan Chakrabarti, "Parameters Estimation of a PID Controller using Evolutionary Algorithms", in Progress in Science and Engineering Research Journal, PISER 13, Vol. 02, Issue: 03/06 May-June 2014, pp: 179-185, ISSN 2347-6680 (E)
- Mousumi De, **Biswajit Basak**, Sudarshan Chakravorty "Evaluation of Optimized PAPR and BER of OFDM signal by using Clipping and Filtering Technique", in International Journal of Computer Science and Information Technologies, Vol. 5 (1), 2014, Pg: 361-365, ISSN:0975-9646
- **Biswajit Basak**, Mousumi De "Evaluation of optimized PAPR of OFDM signal by using SLM technique", in International Journal of Computer Science and Information Technologies, Vol. 5 (1), 2014, Pg:542-546, ISSN:0975-9646
- **Biswajit Basak**, Mousumi De "Performance Analysis of QPSK Modulation Schemes using Gray & Amp; Naive Coding with Rayleigh Fading Channel", in International Journal of Advance Research In Science And Engineering, Vol. No.3, Issue No.2, February 2014, Pg. 32-38, ISSN:2319-8354(E)
- **Biswajit Basak**, Soumya Bag ,Sourabh Biswas , Sudipto Basak "A Review: An Approach of Different Types of Clustering Methods for Data Mining", in International Journal of Research in Information Technology, Volume 2, Issue 2, February 2014, Pg: 100- 106, ISSN: 2001-5569
- **Biswajit Basak**, PritamGhosh, Tanushree Koley, Sudipto Basak "Image Segmentation by Using Different Types of Edge Detection Algorithm with Different Thresholds", in International Journal of ComputerScience and Mobile Applications, Vol.2 Issue. 3, March- 2014, pg. 1-8 ISSN: 2321-8363

General Science & Humanities Department

- Dilip Kumar Giri, Ravindra Pratap Singh and **Abir Bandyopadhyay**, "Displacement Gain dependent fidelity in quantum teleportation using entangled two-mode squeezed light", Opt. Quant. Electron. (2013, DOI 10.1007/s11082-013-9843-5)
- Anindya Banerjee, R. P. Singh and Abir Bandyopadhyay, "Entanglement measure using Wigner function: case of generalized vortex state formed by multi-photon subtraction", Opt Commun. (Accepted, DOI:10.1016/j.optcom.2014.05.035)
- **Subham Ganguly**, "Changing Trends in Indian Print Advertising", International Journal of English Language, Literature & Humanities, Volume- I, Issue IV, pp. 137-150, December 2013, ISSN: 2321-7065.
- **Subham Ganguly**, "An Ode to my Confusions", The Criterion: An International Journal in English, Volume-V, Issue-I, pp. 390-91, February 2014, ISSN: 0976-8165.
- **Subham Ganguly**, "Bhooter Bhabhisyat: Satire and Society", International Journal of English Language, Literature & Humanities, Volume- II, Issue- I, pp. 281-283, April 2014, ISSN: 2321-7065.

Other Areas

• Nakul Ch. Mondal (Librarian, HETC and Research Scholar, V.U), "Library cloud: Practical approach in digital library", VSRD International Journal of Computer Science and Information Technology, e-ISSN2231-2471,p ISSN-2319-2224, Vol IV issue I-II Jan-Feb 2014,page 23-26.

National Journal

Other Areas

• N. Tarafder, "CAD/CAM – A Practical Approach in Textile Manufacturing", Man-Made Textiles in India, Vol. XLI, December 2013, No. 12, pp. 421 - 426.

Publications in Conferences

International Conference

Mechanical Engineering Department

- **Supriyo Roy** presented a paper titled, "Fractal Dimension Optimization of Electroless Ni-P-Cu Coating using Artificial Bee Colony Algorithm" authored by Supriyo Roy and Prasanta Sahoo, at the "4th Nirma University International Conference on Engineering (NUICONE 2013), 28th--30th November 2013, Paper ID: 1182.
- **Supriyo Roy** presented a paper titled, "Optimization of Wear of Electroless Ni-P-Cu Coatings using Artificial bee Colony Algorithm" authored by Supriyo Roy and Prasanta Sahoo,, at the "2nd Interantional Conference on Innovations in Automation and Mechatronics Engineering (ICIAME 2014), 7th-8th March 2014, Paper ID: 35.

Computer Science & Engineering Department

 Rupam Some, A. Praneet Kumar, Darshan Mangar - "Analysis of Routing Protocols on Wireless Sensor Network: A Survey" published in International Research Conference on Electrical ,Electronics and Computer science organized by Institute Of Research And Journals(ISSN: 2321-2950) on 22 januay-2013

National Conference

Computer Science & Engineering Department

• Sanghamitra Das, "Hiding of True Minutiae based on Image Steganography" published in IEEE & IETE Sponsored National Conference on Emerging Trends in Engineering And Sciences(ETES 2014),Mc-Graw Hill Professional was held on 30-31 January,2014 organized by Asansol Engineering College.

Other Areas

- Nakul Chandra Mondal (Librarian, HETC and Research Scholar, V.U), Presented a paper titled, "Emerging Tools of E-learning and their usage in LIS Education in Digital Environment", UGC sponsored National Seminar on "LIS Education: Structure, Infrastructure and Superstructure" authored by Nakul Ch. Mondal, organised by Vidyasagar University, Deptt. of library & information Science on February 20-21, 2014.
- Nakul Chandra Mondal (Librarian, HETC and Research Scholar, V.U and Debasis Bera(Research Schollar, V.U), presented a paper titled "LIS education through distance mode: an analytical study", UGC sponsored National Seminar on "LIS Education: Structure, Infrastructure and Superstructure" authored by Nakul Ch. Mondal and Debasis Bera, organised by Vidyasagar University, Deptt.of library & information Science on February 20-21, 2014.

Photo Gallery





Annual Sports Meet, 2014









Annual College Festival CONFLUENZA





One-day Tech-Fest COMP FIESTA 2014





Annual General Meeting and Reunion of the Alumni Association

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