

# HETC Chronicle

Hooghly Engineering & Technology College

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## e-Newsletter Committee

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Prof. Jagadish Bhattacharyya

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Prof. Sandip Basu

Prof. Arpita Das

### Web Designing Team:

Prof. Shyamal Pal

Prof. Rupam Some



## Campus News

The Orientation Programme for newly admitted 1<sup>st</sup> Year students was held on 8<sup>th</sup> August 2017.



A seminar was organized by the ED Cell of HETC on 14<sup>th</sup> September 2017 where Mr. R. K. Middya, Joint Director, MSME, along with a team of entrepreneurs interacted with the students and shared their views.



Students of all the departments jointly celebrated "Teachers' Day" by felicitating the teachers and organizing cultural programmes.



The 2<sup>nd</sup> and 3<sup>rd</sup> batch of "Suryamitra Skill Development Program" was inaugurated on 31<sup>st</sup> October 2017 and 11<sup>th</sup> December 2017 respectively.



A national level seminar on SWAYAM was organized on 14<sup>th</sup> August 2017 which was attended by the Director, AICTE and Member-Secretary, AICTE.



The HETC Student Chapter of IE(I) organized a technical quiz competition on 15<sup>th</sup> September 2017, the Engineers' Day.



The Viswakarma Puja was celebrated successfully in the college campus by the students, faculties and staff members.



## Admission Status 2017

An appreciable number of students, as mentioned subsequently, compared with the same in the previous years, have chosen this college for fulfilling their desire of studying in the engineering disciplines.

A total of 269 students have taken admission in the 1<sup>st</sup> year and 71 students have taken admission in the 2<sup>nd</sup> year course of studies as Lateral Entry students.

## Departmental Academic Activities

### Civil Engineering Department

- Department of Civil Engineering took up consultancy work on Testing of Concrete Cubes of various grades for Mondal Construction Co. Ltd, Techno Waxchem Pvt Ltd, Greenwell Builders, and L.L.P, M/S Chakraborty Construction in favour of Sreegopal Banerjee College.

### Computer Science & Engineering Department

- A Free and Open Source Software (FOSS) training (through Spoken Tutorial) in collaboration with IIT-Bombay under NMEICT, MHRD, Govt. of India on Java was organized for all students of C.S.E 4th year under the supervision of Prof. Sirshendu Hore on 21<sup>th</sup> September 2017. Prof. Sandeep Bhowmik has acted as an invigilator in this event which was held on 9<sup>th</sup> November 2017.
- A Free and Open Source Software (FOSS) training (through Spoken Tutorial) in collaboration with IIT-Bombay under NMEICT, MHRD, Govt. of India on Advanced C was organized for all students of C.S.E 4th year under the supervision of Prof. Manab Kumar Saha on 16<sup>th</sup> September 2017.
- A Free and Open Source Software (FOSS) training (through Spoken Tutorial) in collaboration with IIT-Bombay under NMEICT, MHRD, Govt. of India on Programming in Scilab was organized for all students of C.S.E 2nd year under the supervision of Prof. Mousumi Das on 14<sup>th</sup> September 2017. Prof. Sanghamitra Das has acted as an invigilator in this event which was held on 9<sup>th</sup> November 2017.
- Department of Computer Science & Engineering organized a three-day workshop on “Internet of Things” from 24<sup>th</sup> August 2017 to 26<sup>th</sup> August 2017, in collaboration with GeeksLab Technologies Pvt. Ltd., Delhi. The event was coordinated by Prof. Sirshendu Hore.

### Electronics & Communication Engineering

- A Free and Open Source Software (FOSS) training (through Spoken Tutorial) in collaboration with IIT-Bombay under NMEICT, MHRD, Govt. of India on Advance Java and Python was organized for all students of E.C.E 4th year under the supervision of Prof. Subhojit Malik on 14<sup>th</sup> November 2017.

## Seminars organized

### Civil Engineering Department

- Mr. Sudipta kansabanik delivered a lecture on “An overview of Fly ash Brick” on 11<sup>th</sup> November 2017.

### Electronics & Communication Engineering

- Prof Jagadish Bhattacharya delivered a lecture on the topic of “Reversible Logic Gates” on 8<sup>th</sup> September 2017.

### Mechanical Engineering Department

- Prof. Samir Ghosh, presented a seminar on “Reduction of NOx by EGR Technique in Diesel Engine” on 18<sup>th</sup> October 2017.
- Prof. Abhishek Mandal, presented a seminar on “Decision Theory”. On 28<sup>th</sup> October 2017.

## Student Participation

- Sourik Jana, Saptarshi Das, Sayan Das, Syantan Ghosh and Soumyadipta Panja students of E.C.E 3rd year participated on a workshop on “Robotics & Internet of Things” organized by IIT-Kharagpur on 4<sup>th</sup> and 5<sup>th</sup> November 2017.
- A group of 13 students of 3rd year CSE has participated in “Ethical Hacking”, held on 4<sup>th</sup> and 5<sup>th</sup> November 2017 at IIT Kharagpur Campus. The event was organized by “What after College”.

## Students' Achievements

- Arnab Ghosh, Bitan Mondal, Sukanta Saha, Debadrita Dey, Amrita Ghosh and Shreya Chatterjee are doing their final year project in DRDO, India.
- Sounak Mondal and Saikat Dey, of CSE 2nd year, stood 1<sup>st</sup> in the event of “Technical Quiz Competition”, organized by IE (I) Students' Chapter, HETC on 15<sup>th</sup> September 2017.
- Ashis Kulla and Kingshuk Pal, of CSE 2nd year, stood 2<sup>nd</sup> in the event of “Technical Quiz Competition”, organized by IE (I) Students' Chapter, HETC on 15<sup>th</sup> September 2017.
- Sayantan Saha of 4th year CSE is pursuing his final year project from IEST, Shibpur, under the Guidance of Prof. Dr. Samit Biswas.
- Avijit Ghosh and Saswati Sharma of 4th year CSE are pursuing their final year project from Kalyani Government Engineering College, Kalyani, under the Guidance of Prof. Partha Sarathi Banerjee.
- Raj Kumar Pal of 4th year CSE is pursuing his final year project from IIIT, Kalyani, under the Guidance of Prof. Dr. S.K. Hafizul Islam.

## Faculty Participation

- Prof. Tonumoy Ghosh delivered lecture on “ Construction of Highway , Material of construction , Machinery used and manpower requirement” at Technique Polytechnique Institute on 14<sup>th</sup> November 2017.
- Mr. Chandan Jana, Mr. Sandip Das, Mr. Anikendu Maitra and Mrs. Sannistha Banerjee, of EE Department successfully completed a 2 week ISTE STTP Workshop on “Electric Power System” from 12<sup>th</sup> June to 15<sup>th</sup> July 2017, conducted by IIT, Kharagpur.
- Mr. Debasish Bose and Mr. Sajal Banerjee, Senior Technical assistant and Mrs. Soumi Dey and Mrs. Priyanka Ghosh, Technical assistant of EE Department, completed a 2 weeks training programme on “Modeling and Analysis of Electrical Circuits Using PSpice and MATLAB” at NITTTR ,Kolkata from 3<sup>rd</sup> July 2017 to 14<sup>th</sup> July 2017.
- Prof. Sirshendu Hore participated in a two weeks Faculty Development program on “Big Data Analytics. And Machine Learning” from 4<sup>th</sup> July 2017 to 14<sup>th</sup> July 2017, in collaboration with NIIT-PATNA under NMEICT, MHRD, Govt. of India.
- Prof. Pradip Ghosh and Pritam Biswas participated in 4<sup>th</sup> National Seminar on “Recent Trends in Applied Science & Humanities” on the topic “Interaction Among the Quarks”, held in the Department of Applied Science and Humanities, DIATM & IEI, Durgapur on 7<sup>th</sup> - 9<sup>th</sup> March 2017.
- Prof. Aishwarya Mukherjee participated in International Seminar on the topic “Frontiers of Stem Cell Research” at University of Kalyani, on 9<sup>th</sup> November 2017.
- Prof. Abhranil De participated in International “Science Seminar” jointly organized by Burdwan Raj College & Indian Chemical Society on 10<sup>th</sup> October 2017.

- Prof. Abhranil De participated in Science academies' lecture workshop on "Recent trends in Chemical Sciences: Issues & Challenges" on 29<sup>th</sup> & 30<sup>th</sup> November 2017 organized by Dept. of Chemistry, Surendranath College, Kolkata.

## Faculty Achievements

- Prof. Arpita Das has successfully registered for PhD at NIT,Durgapur.
- Prof. Shibasish Deb enrolled as a member of the Institute of Engineers, India (MIE).
- The Board of Studies of "Brainware University ", Kolkata, a Deemed university, has appointed Prof. Sirshendu Hore as an external Moderator against three subject for their odd semester examination 2017-2018.
- The Board of Studies of "Brainware University " a Deemed university of Kolkata, has appointed Prof. Sandeep Bhowmik as an external Moderator against four subject for their odd semester examination 2017-2018.
- Prof. Sandeep Bhowmik was appointed as Paper setter for "JIS University", Kalyani, a Deemed University, for their B.Tech. Odd semester exam 2017-2018.
- Prof. Sirshendu Hore was appointed as Paper setter for "JIS University", Kalyani, a Deemed University, for their B.Tech.odd semester exam 2017-2018.
- Prof. Sandeep Bhowmik was appointed as an External Examiner by "JIS University", Kalyani, a Deemed University, for Even Semester Examination 2016-17.
- Prof. Sirshendu Hore acted as a reviewer for the Second International Conference on Smart Trends for Information Technology and Computer Communications (SmartCom 2017), Pune, India (dt. August 18-19, 2017). The event was organized by Global Knowledge Research Foundation (G R Foundation), Computer Society of India under the banner of Springer.
- Prof. Sirshendu Hore acted as a reviewer for the Third International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2017), Udaipur, India (dt. December 16-17, 2017). The Conference was jointly organized by CSI Udaipur Chapter and ACM.
- Dr. Akash Roy acted as Technical Program Committee Member of 3<sup>rd</sup> Annual International Workshop on Materials Science and Engineering held in Guangzhou, Guangdong, China during 8<sup>th</sup> -10<sup>th</sup> September 2017.
- Dr. Akash Roy acted as Technical Program Committee Member of International Conference on Functional materials and Biomaterials held in Yichang, Hubei, China during 17<sup>th</sup> -19<sup>th</sup> November 2017.

## Publications of Faculty Members

### Publications in Journals

#### ❖ International Journal

#### Basic Science & Humanities Department

- N Tarafder, "Applications of Smart Clothing as Wearable Electronics", International Journal of VLSI Design, Microelectronics and Embedded System", OJS, Man Tech Publications, Vol. II, Issue 1, March 2017, pp. 1 - 14.
- Tiyas Ghosal, "The Extraction and Eradication of Hyde in Stevenson's Strange Case of Dr Jekyll and Mr.Hyde"(reading the Queer), International Journal of English Language and Literature in Humanities, Volume V Issue IX, September 2017.
- Prof. Rajesh Patra, Sakti Pada Barik, P.K. Chaudhuri, "Penny shaped crack in an infinite transversely isotropic piezoelectric layer under symmetrically applied line load", Advanced Math. Models & Applications (Jomard Publishing), Vol.2. No.2, 2017, pp 117-138.

## ❖ National Journal

### Basic Science & Humanities Department

- N Tarafder, “Material characteristics of bullet proof vests as protective garments”, Man-Made Textiles in India, Vol. XLV, No. 1, January 2017, pp. 10 - 15.
- N Tarafder, “Sewing Thread Essential and Desirable”, Man-Made Textiles in India, Vol. XLV, No. 10, October 2017, pp. 242 - 247.
- N Tarafder, “Functional Properties of Conductive Textiles”, Journal of Current Trends in Electrical Engineering, Man Tech Publications, Vol. II, Issue 3, November 2017, pp. 1-13.
- N Tarafder, “Environmental Pollution Impacts of Textile Production and Processing”, OJS, Man Tech Publications, Vol. II, Issue 3, December 2017, pp. 1 - 15.

## Publications in Conferences

### ❖ International Conference

#### Civil Engineering Department

- Tanumoy Ghosh, Dr Sudip kumar Roy, Dr Subhamay Gangopadhyay “Multilane Highway Capacity Estimation by Micro-simulation Technique using calibrated Vehicle following model” published in IRF world Road Meeting on 14<sup>th</sup> to 17<sup>th</sup> November 2017 at New Delhi.
- Arpita Das, Showmen Saha, Dibyendu Bhowmik “Analytical simulation of nanocomposite cementitious materials with Carbon Nano Fiber (CNFs)” accepted in the International Conference on Nanotechnology: Ideas, Innovations and Initiatives-2017 (ICN:3I-2017) from 6<sup>th</sup> to 8<sup>th</sup> December 2017, at Indian Institute of Technology (IIT) Roorkee, India.

### ❖ National Conference

#### Electrical Engineering Department

- Chandan Jana, IEEE Kolkata Section CALCON 2017, December 2nd and 3rd, 2017; “PSO based determination of Optimal Rating and Position of DG in a Radial Distribution Network Considering Uncertainty in Load Demand”.
- Mousumi Jana Bala, IEEE Kolkata Section CALCON 2017, December 2nd and 3rd, 2017; “Improvement of the Performances of Line Start Permanent Magnet Synchronous Motor with Flux Barrier in the Rotor”.



## Photo Gallery



Orientation Programme 2017





A national level seminar on SWAYAM



A half-day seminar on Entrepreneurship Awareness of ED Cell



The Engineers' Day celebration by IE(I) HETC Students' Chapter



Teachers' Day Celebration 2017





Viswakarma Puja 2017



Inauguration of Suryamitra Skill Development Program