

# HETC Chronicle

Hooghly Engineering & Technology College

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## e-Newsletter Committee

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## Campus News

A Thalassaemia Awareness and Detection Camp was organized in association with the Ranaghat Thalassaemia Detection Centre in the college campus on 3<sup>rd</sup> September, 2019.



Students of all the departments jointly celebrated "Teachers' Day" on 5<sup>th</sup> September, 2019 by felicitating the teachers and organizing cultural programmes.

A Blood Donation Camp was organized in association with Kothari Medical Centre Blood Bank on 20<sup>th</sup> September, 2019.



A workshop on Solar Lantern was held on 2<sup>nd</sup> October, 2019 to commemorate Mahatma Gandhi.

A seminar by Mr. Ankuran Das on Entrepreneurship Awareness was organized by the ED Cell of HETC on 5<sup>th</sup> November, 2019.



A rally on AIDS Awareness was organized by the NSS unit in association with PBVM on 1<sup>st</sup> December, 2019, World AIDS Day.





*HETC Chronicle*, the Half-yearly e-newsletter of Hooghly Engineering &

Technology College, is all set to be published for the December 2019 issue. It brings me pleasure to mention that the entire Odd Semester of 2019-20 (July to December 2019) has been an eventful period for the college. The newly introduced Induction Programme for the fresh entrants, that came into existence since last academic session, went off quite satisfactorily with varied and relevant contents for the new aspirants.

*HETC Chronicle*, with its aims and objectives, had been an attractive publication of HETC in the past years and the present issue is going to be of no exception to that.

It also gives me pleasure to mention that the present facilities of this college are being utilized for conduction of different vocational skill development programmes, sanctioned by either West Bengal Government or Govt. of India to facilitate young citizens in the vicinity as well as from distant places of the state and country.

I congratulate the entire team of "HETC Chronicle" for a timely and quality publication of the newsletter for the period from July to December 2019 which would definitely inspire us all to strive for a still better work in the future.

Dr. Sumanta Bhattacharyya  
Principal, HETC

The mandatory 3-week Induction Programme was held for the newly admitted 1<sup>st</sup> year students during 1<sup>st</sup> to 21<sup>st</sup> August, 2019 to acclimatize them to the environment of their engineering institution.

### Highlights

The Orientation Programme for newly admitted 1<sup>st</sup> Year students was held on 1<sup>st</sup> August, 2019.



Self-Defense training was held during 2<sup>nd</sup> to 16<sup>th</sup> August, 2019.

Paschimbanga Vigyan Mancha organized a Science Awareness Camp on 3<sup>rd</sup> August, 2019.



Mr. Chandan Clement Singh, a Nature Activist, delivered a speech on 6<sup>th</sup> August, 2019.

A workshop on Universal Human Values was held during 7<sup>th</sup> to 10<sup>th</sup> August, 2019.



A workshop on "Locating Human in Every Gender and Religion" was held on 8<sup>th</sup> August, 2019.

A Tree Plantation programme was organized on 21<sup>st</sup> August, 2019 in the college campus and beyond to spread awareness about our environment.



## Activities related to MOOCs

Massive Open Online Courses (MOOCs) are free online courses available for anyone to enroll. MOOCs are a recent development in distance education. They provide an affordable and flexible way to learn new skills from the best institutes in the world, advance career and deliver quality educational experiences.

Spoken Tutorial, NPTEL and SWAYAM are different platforms that provide MOOCs in India.

### Spoken Tutorial

The following Free and Open Source Software (FOSS) Training programmes (through Spoken Tutorial) were organized in collaboration with IIT-BOMBAY under NMEICT, MHRD, Govt. of India:-

Name of the Course	Department & Year	Faculty Coordinator(s)
QCAD	CE 4 <sup>th</sup> year	Mr. Rajdip Paul & Mrs. Piyali Das
QCAD	CE 3 <sup>rd</sup> year	Mrs. Arpita Chattopadhyay & Mr. Tanumoy Ghosh
QCAD	CE 2 <sup>nd</sup> year	Mr. Shibashis Deb & Mrs. Arpita Das
Advanced C++	CSE 3 <sup>rd</sup> year	Mr. Dibyendu Samanta
LATEX	ME 4 <sup>th</sup> year	Mr. Rajib Kr. Mandal
JAVA	ME 3 <sup>rd</sup> year	Mr. Shamik Ghosh
QCAD	ME 2 <sup>nd</sup> year	Mr. Sandip Basu
Scilab	EE 2 <sup>nd</sup> year	Mr. Chandan Jana

### SWAYAM-NPTEL

HETC is a Local Chapter of SWAYAM-NPTEL. The following courses have been offered in this semester through the SWAYAM-NPTEL platform:

Name of the Course	Duration	Mentor(s)
An Introduction to Programming through C++	12 weeks	Mr. Sandeep Bhowmik, Mr. Shirshendu Hore, Mr. Sumanta Daw
Ethics in Engineering Practice	8 weeks	Dr. Sumanta Bhattacharyya, Mr. Arup Maity, Mr. Biswajit Basak
Artificial Intelligence Search Method for Problem Solving	12 weeks	Mr. Chandan Jana
Introduction to Machine Learning	12 weeks	Mr. Sandip Basu
Technical English for Engineers	8 weeks	Mr. Subham Ganguly, Mrs. Arpita Das

## Departmental Academic Activities

### Civil Engineering Department

- Department of Civil Engineering took up a consultancy work on Testing of Concrete Cube Moulds of various grades for Bansberia Highway Division – I & COSMIC.

### Computer Science & Engineering Department

- A Seminar on “Biometric Security” was organized on 24<sup>th</sup> October, 2019, 11 am onwards at the Seminar Hall. The seminar was delivered by Dr. Somnath Dey, Associate Professor, IIT Indore.

## Seminars organized

### Civil Engineering Department

- Mr. Shibasish Deb, Asst. Professor of Civil Engineering Department, presented a seminar on “Advancement in Surveying Instrumentation using EDM instruments” on 21<sup>st</sup> December, 2019.

### Electrical Engineering Department

- Mr. Debasish Bose, Senior Technical Assistant of Electrical Engineering Department, presented a seminar on “Protection and Safety in Scientific and Engineering works” on 20<sup>th</sup> December, 2019.

## Students' Achievements

- Subham Tapader, 2019 pass out student of CE has secured the first position in the CE discipline of the University and will be awarded the Gold Medal for his Excellent Academic performance.
- Shashikant Shaw of CSE 4<sup>th</sup> year qualified in Round 1 of TCS CodeVita Season 8 held during 28<sup>th</sup> June -13<sup>th</sup> July, 2019 and secured a rank of 1391.
- Shashikant Shaw, Vikram Prasad Shaw and Abhijit Shaw of CSE 4<sup>th</sup> year participated in ACM ICPC Asia Kharagpur First Round Online Contest (Programming) 2019 and were mentored by Mr. Sirshendu Hore.

## Faculty Participation

- Mr. Pratyay Debnath, Assoc. Professor of BSH Department, successfully completed an AICTE approved eight-week FDP on “Introduction to Abstract and Linear Algebra” organized by NPTEL, with a consolidated score of 92%.
- Mr. Arup Maiti, Asst. Professor of BSH Department, successfully completed an AICTE approved twelve-week FDP on “Management Accounting” organized by NPTEL, with a consolidated score of 86%.
- Mr. Arup Maiti, Asst. Professor of BSH Department, successfully completed an AICTE approved eight-week FDP on “Financial Accounting” organized by NPTEL, with a consolidated score of 82%.
- Mr. Arup Maiti, Asst. Professor of BSH Department, successfully completed an AICTE approved four-week FDP on “Cost Accounting” organized by NPTEL, with a consolidated score of 80%.
- Mrs. Arpita Das, Asst. Professor of CE Department, successfully completed an AICTE approved twelve-week FDP on “Design of Reinforced Concrete Structures” organized by NPTEL, with a consolidated score of 92%.
- Mr. Rajdip Paul, Asst. Professor of CE Department, successfully completed an AICTE approved twelve-week FDP on “Design of Reinforced Concrete Structures” organized by NPTEL, with a consolidated score of 95%.

- Mrs. Arpita Chattopadhyay and Mr. Tanumoy Ghosh, Asst. Professors of CE Department, successfully completed a one-day workshop on “Research and advancement in Traffic safety engineering” at IEST, Shibpur, Kolkata on 17<sup>th</sup> June, 2019.
- Mr. Rajdip Paul and Mrs. Arpita Das, Asst. Professors of CE Department, successfully completed a one week training program on “Commentary on IS: 456-2000 - Explanation, Interpretation, Application & Limitations” at NITTTR, Kolkata during 24<sup>th</sup> to 28<sup>th</sup> June, 2019.
- Mr. Sandeep Bhowmik, Asst. Professor of CSE Department, successfully completed the Short Term Training Program on “Active Learning under Engineering Education” organized by NITTTR, Kolkata held during 8<sup>th</sup> to 19<sup>th</sup> July, 2019.
- Mr. Shyamal Pal, Asst. Professor of CSE Department, successfully completed the Faculty Development Program on “Augmented Reality (AR) and Virtual Reality (VR)” organized by IIT Patna held during 2<sup>nd</sup> to 6<sup>th</sup> December, 2019.
- Mr. Subhojit Malik, Asst. Professor of ECE Department, successfully completed an AICTE approved twelve-week FDP on “Switching Circuits & Logic Design” organized by NPTEL, with a consolidated score of 77%.
- Mr. Subhajit Roy, Asst. Professor of ECE Department, successfully completed an AICTE approved twelve-week FDP on “Switching Circuits & Logic Design” organized by NPTEL, with a consolidated score of 87%.
- Mrs. Shilpi Saha, Asst. Professor of EE Department, successfully completed an AICTE approved eight-week FDP on “Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink” organized by NPTEL, with a consolidated score of 93%.
- Mr. Chandan Jana, Asst. Professor of EE Department, successfully completed an AICTE approved eight-week FDP on “Electrical Distribution System Analysis” organized by NPTEL, with a consolidated score of 84%.
- Mr. Sandip Das, Asst. Professor of EE Department, successfully completed an AICTE approved eight-week FDP on “Introduction to Smart Grid” organized by NPTEL, with a consolidated score of 75%.
- Mrs. Debolina Pradhan, Asst. Professor of EE Department, successfully completed an AICTE approved eight-week FDP on “Fundamentals of Electric Drives” organized by NPTEL, with a consolidated score of 82%.
- Mrs. Shilpi Saha, Asst. Professor of EE Department, successfully completed a 1 week STTP on “Next Generation power converters :Design, PWM strategy and Control” under Continuing Education Programme held at IIT Delhi from 1<sup>st</sup> to 5<sup>th</sup> July, 2019.
- Mrs. Sannistha Banerjee, Asst. Professor of EE Department, successfully completed a 1 week STTP on “Solar PV System” held at NITTTR, Kolkata from 18<sup>th</sup> to 22<sup>nd</sup> November, 2019.
- Mr. Anikendu Maitra, Asst. Professor of EE Department, Mrs. Mousumi Das, Asst. Professor of CSE Department, Mr. Manish Kr. Singh, Asst. Professor of ECE Department, Mr. Sandip Basu, Asst. Professor of ME Department and Mrs. Tamoghna Datta, Asst. Professor of BSH Department, successfully completed a 1 week STTP on “Induction Training” held at NITTTR, Kolkata from 15<sup>th</sup> to 19<sup>th</sup> July, 2019.
- Mr. Sandip Das, Asst. Professor of EE Department, successfully completed a 1 week STTP on “PLC Applications in Automations” held at NITTTR, Kolkata from 22<sup>nd</sup> to 26<sup>th</sup> July, 2019.
- Mr. Debasish Bose, Senior Technical Assistant of EE Department, successfully completed a 1 week STTP on "Development of Laboratory Instruction and Manual" held at NITTTR, Kolkata from 8<sup>th</sup> to 12<sup>th</sup> July 2019.
- Mrs. Soumi Dey, Technical Assistant of EE Department, successfully completed a 1 week STTP on "Power Electronics" held at NITTTR, Kolkata from 14<sup>th</sup> to 18<sup>th</sup> October 2019.

## Faculty Achievements

- Mr. Rajdip Paul, Asst. Professor of CE Department, was a topper in the AICTE approved twelve-week Faculty Development Program (FDP) on “Design of Reinforced Concrete Structures” organized by NPTEL.

- Mr. Sirshendu Hore, Asst. Professor of CSE Department, acted as a Reviewer for the "International Journal of Ambient Computing and Intelligence (IJACI)".
- Mr. Sirshendu Hore, Asst. Professor of CSE Department, acted as a Reviewer for "Measurement", the journal of the International Measurement Confederation (IMEKO).
- Mr. Sirshendu Hore, Asst. Professor of CSE Department, acted as a Reviewer for "MDPI -Algorithm", an open-access scientific journal.
- Mr. Sirshendu Hore, Asst. Professor of CSE Department, acted as a Reviewer for "Computers and Concrete", the Official Journal of Korea Association of Computational Mechanics (KACM).
- Mr. Anikendu Maitra, Asst. Professor of EE Department, successfully registered for PhD in Electrical Engineering Department of Jadavpur University.
- Mr. Chandan Jana, Asst. Professor of EE Department, received a Topper Certificate (top 5%) in the FDP organized by NPTEL-AICTE on 'Electrical Distribution System Analysis'.
- Mr. Sandip Das, Asst. Professor of EE Department, received a Topper Certificate (top 5%) in the FDP organized by NPTEL-AICTE on "Introduction to Smart Grid".

## Publications of Faculty Members

### Publications in Journals

#### ❖ International Journal

#### Computer Science & Engineering Department

- Sirshendu Hore, T Bhattacharya, "Analyzing Tagore's Emotion With the Passage of Time in Song-Offerings: A Philosophical Study Based on Computational Intelligence", International Journal of Synthetic Emotions (IJSE), Volume-10, Issue-2, Pages-18-38, 2019, DOI: 10.4018/IJSE.2019070102.

### Publications in Conferences

#### ❖ International Conference

#### Civil Engineering Department

- Rajdeep Paul, S.K. Dalui, "Wind Effects on Cross Plan Shaped Tall Building", 64<sup>th</sup> Conference of Indian society of theoretical & Applied Mechanics, ISTAM 2019, School of Mechanical Sciences and School of Basic Sciences (Mathematics), Indian Institute of Technology Bhubaneswar, 9<sup>th</sup> – 12<sup>th</sup> December, 2019.
- Arpita Das, S. Saha, and D. Bhowmik, "Elastic behavior of nano composite cementitious material using various nanopolymer", 64<sup>th</sup> Conference of Indian society of theoretical & Applied Mechanics, ISTAM 2019, School of Mechanical Sciences and School of Basic Sciences (Mathematics), Indian Institute of Technology Bhubaneswar, 9<sup>th</sup> – 12<sup>th</sup> December, 2019.

#### Electrical Engineering Department

- Chandan Jana, "Determination of Rating and Optimal Position of Distributed Generation", IEEE International Conference, GCAT-2019, Bengaluru, 18<sup>th</sup> – 20<sup>th</sup> October, 2019.

## Photo Gallery



Induction Programme for Freshers 2019



Teachers' Day Celebration 2019



Workshop on Solar Lantern to celebrate 150<sup>th</sup> Birth Anniversary of Mahatma Gandhi



Rally on AIDS Awareness 2019