

Hooghly Engineering & Technology College

About HETC

Hooghly Engineering and Technology College (HETC) is a self-financed engineering college run by the Hooghly Engineering & Technology College Society, promoting technical education amongst students and disseminating scientific knowledge in society. The institute is affiliated with the Maulana Abul Kalam Azad University of Technology (formerly WBUT). The Government of West Bengal recognizes it, and the All India Council for Technical Education (AICTE) approves its courses.

HETC is in Hooghly of Hooghly district in West Bengal, India. It is 1.9 km (1.2 miles) from the Hooghly railway station and approximately 800 m (2,600 ft) from the Hooghly Ghat railway station. Hooghly Engineering and Technology College offers undergraduate programs in engineering disciplines. The College provides B.Tech in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical Engineering, and Mechanical Engineering. The institution is committed to promoting research and providing quality education through its dedicated management, faculty, and staff members. HETC has grown into one of West Bengal's leading educational institutes within 18 years by offering various stimulating environments for its stakeholders' intellectual development, free-thinking, and personal growth. The motto of HETC is to challenge students with dynamic learning opportunities and provide them with the skills, insights, attitudes, and practical experiences required to take up societal responsibilities. With so much to offer, it's only natural that HETC students have a one-of-a-kind opportunity to carve a niche for themselves in their chosen field of study, allowing them to become well-rounded and discriminating citizens who are completely qualified for their chosen vocations in the workplace.



About the Civil Engineering Department

The Department of Civil Engineering started its journey from the College's inception nearly two decades back. Ever since, the Department has been successfully creating new knowledge, acquiring new capabilities, and at the same time, producing an intelligent human resource pool contributing to various domains of society. The development of expertise in the Department is commendable. Keeping the Department's vision in mind, the holistic growth of the students is focused upon, which instills a habit of continued learning with a sense of responsibility to contribute to the betterment of society. Besides, the students are encouraged to participate in internships, workshops, and seminars essential for developing practical knowledge. The Department has always been on a high growth path, primarily relying on experienced and dedicated faculty members working zealously and enthusiastically with a strong commitment to engineering education. Consequently, the Department provides Civil Engineering aspirants with a vibrant and optimum learning environment.



**CHAIRPERSON
PROF. TARAK KUMAR BANDYOPADHYAY**

**COORDINATOR
MS. ARPITA DAS**

**CO-COORDINATORS
DR. TANUMOY GHOSH
DR. RAJDIP PAUL**

**3-DAY WORKSHOP ON
"ADVANCED SURVEYING USING DGPS
AND TOTAL STATION"**

28-30TH MARCH 2023

**ORGANIZED BY
CIVIL ENGINEERING DEPARTEMNT OF HETC**

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Hooghly Engineering & Technology College

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Objective

The objective of the 3-day workshop is to offer comprehensive technical know-how on practical applications of Total Station (TS) and Digital Global Positioning System (DGPS) as advanced surveying techniques. In detail, the workshop will take up system concepts, design, operation, implementation, and applications of both TS and DGPS. Besides, detailed information on the GPS signal, its processing by the receiver, and the techniques by which GPS obtains position, velocity, and time are also under the scope. The specific objectives of the workshop are as follows:

- To gain an understanding of the measurement of angles, vertical and horizontal.
- To know the correct surveying terminology when using a total station
- To use the Total Station in a practical situation.
- To record the absolute location of any object.
- To comprehensively introduce GPS and DGPS technology, system concepts, design, operation, implementation, and applications, including critical information on DGPS concepts.
 - To provide detailed information on the GPS signal, its processing by the receiver and the techniques by which GPS obtains position, velocity, and time.
 - To present current information on the status, plans, schedule, and capabilities of GPS and other satellite-based systems with position velocity and time determination applications.
 - To fill in technical information gaps for those in the GPS and GNSS fields.

“ **ADVANCED SURVEYING WORKSHOP
USING
DGPS AND TOTAL STATION** ”

WORKSHOP SCHEDULE FOR 28th, 29th & 30th March

DATE	SESSION	EVENT	TIME
28 March	1st	INAUGURATION	10:00 A.M. TO 10:30 A.M.
		TEA BREAK	10:30 A.M. TO 10:45 A.M.
		INTRODUCTORY LECTURE BY MR. SUVOBRATA GHOSH	10:45 A.M. TO 01:00 P.M.
	BREAK		01:00 P.M. TO 02:00 P.M.
	2nd	INSTRUMENT SPECIFICATION ABOUT TOTAL STATION AND DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)	02:00 P.M. TO 03:00 P.M.
		TEA BREAK	03:00 P.M. TO 03:15 P.M.
SETTING UP THE TOTAL STATION IN THE FIELD		03:15 P.M. TO 05:00 P.M.	
29 March	1st	TOPOGRAPHY SURVEY USING TOTAL STATION	10:00 A.M. TO 11:30 A.M.
		TEA BREAK	11:30 A.M. TO 11:45 A.M.
		LAYOUT PREPARATION USING TOTAL STATION	11:45 A.M. TO 01:00 P.M.
	BREAK		01:00 P.M. TO 02:00 P.M.
	2nd	STATIC GLOBAL POSITIONING SYSTEM SURVEYING	02:00 P.M. TO 03:00 P.M.
		TEA BREAK	3:30 P.M. TO 03:15 P.M.
REAL-TIME KINEMATIC AND DGPS		03:15 P.M. TO 05:00 P.M.	
30 March	1st	STAKE OUT POINTS WITH DGPS	10:00 A.M. TO 11:30 A.M.
		TEA BREAK	11:30 A.M. TO 11:45 A.M.
		DATA PROCESSING OF TOTAL STATION	11:45 A.M. TO 01:00 P.M.
	BREAK		01:00 P.M. TO 02:00 P.M.
	2nd	DATA PROCESSING OF DGPS	02:00 P.M. TO 03:00 P.M.
		TEA BREAK	3:00 P.M. TO 03:15 P.M.
CLOSING SESSION		03:15 P.M. TO 04:00 P.M.	

REGISTRATION DETAILS

- The workshop is open to the faculty of Academic Institutions, UG, and diploma students and Professionals from Industry.
- The Registration fee for faculty of Academic Institutions and Industry Professionals is Rs. 300/- and for UG and diploma students is Rs. 100/-.
- Participants need to register themselves by filling out the google form link <https://forms.gle/mXDNTW7UV8mGLBPH9>
- Pay the registration fee in the following bank account:

Account No - 50339432106

Hooghly Engineering & Technology College

Bank – INDIAN BANK

Branch - Chinsurah

IFSC code: IDIB000C593

The last date for receipt of the registration form is 25th March 2023. Selected participants will get an email acknowledgment on 26th March 2023.

Address for Communication

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For Registration



Scan QR Code

