



# **ST. THOMAS' COLLEGE OF ENGINEERING & TECHNOLOGY**



**4, DIAMOND HARBOUR ROAD, KIDDERPORE, KOLKATA – 700023**

# BRIEF HISTORY/BACKGROUND

In a bid to supplement the efforts of the West Bengal Government College and the All India Council for Technical Education (AICTE) in expanding the infrastructure of technical education in this region it was contemplated in 2000 to establish an Engineering College for the benefit of students in West Bengal and also in the region. To give the idea a shape, St. Thomas' College of Engineering & Technology was established with the intention to impart quality technical education to the students and imbibe confidence into the young talents graduating from the institution to stand up to the challenges of life with confidence. To ensure this, a plan was made so that it could become a seat of excellence in due course of time. Based on this preamble, St. Thomas' College of Engineering & Technology at 4, Diamond Harbour Road, Kidderpore, Kolkata 700023, West Bengal came into being on 29th August 2000.

The college is affiliated to Maulana Abul Kalam Azad University of Technology (**MAKAUT**), West Bengal, formerly known as West Bengal University of Technology (**WBUT**).

The college is approved by All India Council for Technical Education (**AICTE**).

Departments of Computer Science & Engineering (CSE), Information Technology (IT), Electronics & Communication Engineering (ECE) and Electrical Engineering (EE) are **NBA** accredited.

New courses “**B.Tech. in Artificial Intelligence and Machine Learning**”, “**M. Tech in Artificial Intelligence and Data Science**” and “**M. Tech in Internet of Things**”. Approved by **AICTE**. Affiliated to **MAKAUT**.

**College Trust:** Calcutta Diocesan Educational Trust.

# MESSAGE FROM THE DIRECTOR'S DESK



In its 21st year, St. Thomas' College of Engineering & Technology is continuing to inspire and offer rewarding career to all its students through their overall development and growth.

The college ensures the students' abilities to be nurtured in the hands of highly qualified and dedicated team of faculty members for promising and exciting future. We develop the talents and skills to its full potential.

The education here though technical yet is a perfect blend of 'knowledge' and 'values', 'theory' and 'practice'. The personal and community development is the highest goal of this institute. The college is open for all aspiring students who are willing to see themselves successful in this era of globalization.

**Dr. Subir Chowdhury**  
**Director (Academic)**



In the past two decades since its inception, St. Thomas' College of Engineering & Technology has established a reputation of being a seat of learning. Here students get excellent support to learn and develop skills to implement their knowledge to become leader in later life. Our alumni are well placed in the industry and a substantial number of students are established as teachers both in India and abroad.

Throughout this journey we have focused on discipline as a major area of thrust since inception. Attendance is strictly observed and students are encouraged to learn both in classrooms and laboratories. Personal development is also closely monitored and students are provided counselling to decide on their career options.

Apart from academics, students are encouraged to take up social causes. There are ample opportunities to take part in sports and games for all round development. We welcome all those who will be joining us in the coming academic session.

**Prof. Gautam Banerjea**  
**Director (Admin. & Finance)**

# MESSAGE FROM THE PRINCIPAL'S DESK

St. Thomas' College of Engineering & Technology believes in holistic development of an individual to become a responsible human being fully aware of its surroundings.

Training with the best possible education in the corner-stone of this institution. We sincerely believe that this institution will show the students the right path towards the bright future.



**Dr. Sailes Mukhopadhyay**  
**Founder Principal**



We, at St. Thomas' College of Engineering & Technology focus on all round development of the students. We encourage them to take part in various academic and social activities all the year round. This college strives to respect the unique individually of each student and help them to achieve their best.

**Dr. Shila Ghosh**  
**Principal**

# INSTITUTE VISION-MISSION

## **Vision of the Institute:**

To evolve as an industry oriented, research-based Institution for creative solutions in various engineering domains, with an ultimate objective of meeting technological challenges faced by the nation and the society.

## **Mission of the Institute:**

To enhance the quality of engineering education and delivery through accessible, comprehensive and research-oriented teaching-learning-assessment processes in the state-of-art environment.

To create opportunities for students and faculty members to acquire professional knowledge and develop managerial, entrepreneurial and social attitudes with highly ethical and moral values.

To satisfy the ever-changing needs of the nation with respect to evolution and absorption of sustainable and environment friendly technologies for effective creation of knowledge-based society in the global era.

# DEPARTMENTS AND INTAKE CAPACITY

The college is offering four programmes. All are NBA accredited. New courses from this year “B.Tech. in Artificial Intelligence and Machine Learning” “M. Tech in Artificial Intelligence and Data Science” and “M. Tech in Internet of Things”. All courses are approved by AICTE and affiliated to MAKAUT.

UNDERGRADUATE PROGRAMME	ESTABLISHED YEAR	INTAKE	DURATION
Computer Science & Engineering (CSE)	2000	60	4 Years
Artificial Intelligence and Machine Learning (AIML)	2021	60	4 Years
Information Technology (IT)	2020	60	4 Years
Electronics & Communication Engineering (ECE)	2000	60	4 Years
Electrical Engineering (EE)	2000	60	4 Years

POSTGRADUATE PROGRAMME	ESTABLISHED YEAR	INTAKE	DURATION
Artificial Intelligence and Data Science	2021	30	2 Years
Internet of Things	2021	30	2 Years

The intake is 60 students in each stream. The admission is through **West Bengal Joint Entrance Examination (WBJEE 2021)** and **JEE Mains- 2021** examination and subject to rules and norms as framed by the West Bengal Government and All India Council for Technical Education.

## NOTABLE STUDENT ACHIEVEMENTS & RECOGNITIONS (LAST 3 YEARS)

### Academic Accomplishments

NAME	DEPARTMENT	YEAR	UNIVERSITY RANK
Swapnanil Gupta	Electronics & Communication Engineering	2019	1st
Diksha Saha	Information Technology	2019	2nd
Nikita Shah	Computer Science & Engineering	2019	3rd
Prachi Nigania	Computer Science & Engineering	2018	1st
Shohan Mahalanobish	Electrical Engineering	2017	1st
Avirup Ghosh	Electrical Engineering	2017	2nd
Nicole Belinda Dillen	Computer Science & Engineering	2017	2nd
Soumini Pyne	Computer Science & Engineering	2017	3rd
Emily Mukherjee	Information Technology	2017	3rd

**\*2020 University Convocation yet to be held.**

## Noticeable Performance of students in National Competitions

- **Topper-15, Elite + Gold– 07** in NPTEL courses (January-June 2019). **Topper-31, Elite + Gold– 16** in NPTEL courses (July-December 2019).
- S. Sarkar, N. Chakraborty and P. Moshat (**Electrical Engineering**): 1<sup>st</sup> runner up in SBI Numero YONO Quiz 2020 (eastern region) with a scholarship of Rs.1,44,000.
- Sreshtha Pramanick and S. Tarun Kumar (**Electronics & Communication Engineering**): Shortlisted for “Chhatra Vishwakarma Awards 2019”.
- Team Pineapples (**Computer Science & Engineering**): 1<sup>st</sup> Position in Zoonhackathon, 2019.
- Avranil Maity and Ananya Das (**Computer Science & Engineering**): 1<sup>st</sup> prize for “A Dynamic Spatial Fuzzy C-means Clustering based Medical Image Segmentation”, Springer.
- Abhilash Mishra (**Computer Science & Engineering**): 3<sup>rd</sup> position in all India level and 1<sup>st</sup> in Eastern Region of CTS Hackathon, 2018.
- Swapnanil Gupta (**Electronics & Communication Engineering**): 2<sup>nd</sup> position in Texas Instruments DrishTI Online.
- Udit Bhattacharjee (**Electronics & Communication Engineering**): Best Paper Award in IEEE iAIM, 2017.
- Rahul Kumar, Atul Kumar, Shivam Kumar, Smriti Bhunia, and Roshan Aftab (**Information Technology**): 2<sup>nd</sup> Prize in Smart India Hackathon March 2018.
- A.N.V.K.S. Sai (**Electrical Engineering**): 1<sup>st</sup> runner up, Smart India Hackathon, 2018.
- Indrajit Seal, Arvind Kumar and Hrituparna Majumder (**Electrical Engineering**): 1<sup>st</sup> prize in Regional On-Campus Technical festival 2017 organized by IET (YPS) Local Network.

## Achievements in Projects

- ‘Alphabet Learning’, currently being used at Autism Society of West Bengal.
- ‘Rakteem-A Blood Donors’ Alert System approved by federation of Indian blood donor organization.
- Jayashree Banerjee, Anwesha Datta (Computer Science & Engineering): Best project award in Project Competition by CTS.

## Entrepreneurship

- Sampriti Bhattacharya: Hydroswarm, Boston, USA.
- Vikas Gupta: Human Fractal, Bengaluru, India.
- Mohit Hada: Technid Solution, Kolkata, India.
- Enayatul Haque: INA Internet Pvt. Ltd., Kolkata, India.
- Aritro Banerjee and Aditya Roy: Apsolutio Technologies Pvt. Ltd., Kolkata, India.
- Noumaan Arif and Sayema Fatema: Nullstack Technologies Pvt. Ltd., Kolkata, India.

## LIST OF STUDENTS IN IIT, IISC, IIIT, NIT AND IIM (2017-2020)

- Aritra Nandy (Computer Science & Engineering)-**IIT Kanpur (GATE 2020)**.
- Debanjan Chatterjee (Computer Science & Engineering)-**IIT Kanpur (GATE 2020)**.
- Debasish Samanta (Electrical Engineering)-**IIM Sirmaur, (CAT 2020)**.
- Samrat Kundu (Electronics & Communication Engineering)-**IISC (GATE 2019)**.
- Samrat Dutta (Computer Science & Engineering) -**IIT Bombay (GATE 2019)**.
- Arnab Chatterjee (Computer Science & Engineering)-**IIITD, (GATE 2019)**.
- Md Rehan (Electrical Engineering) -**IIT Madras (GATE 2019)**.
- Abhiraj Prasad (Electrical Engineering)-**IIT Roorkee (GATE 2019)**.
- Ananya Das (Computer Science & Engineering)- **IIM Ranchi (CAT 2018)**.
- Anand Kalwar (Electrical Engineering)- **IISC (GATE 2018)**.
- Sk. Mainul Islam (Computer Science & Engineering) **IIT Kharagpur (GATE 2018)**.
- Tamoghna Hazra (Computer Science & Engineering)- **IIT Guwahati (GATE 2018)**.
- Rudranil Bhowmik (Information Technology) **IIT Kanpur (GATE 2018)**.

**\*14 Students qualified in GATE 2021**



# LIST OF STUDENTS IN FOREIGN UNIVERSITIES (2016-2020)

## Computer Science & Engineering

- Aritra Kundu: Worcester Polytechnic Institute, USA.
- Amreeta Chatterjee: Oregon State University, USA
- Nicole Belinda Dillen: University of Waterloo, Canada.
- Ayan Hore: University of Grenoble, France.
- Ritam Ganguly: IOWA State University, USA.
- Oyendrilla Dobe: IOWA State University, USA.
- Shreya Das: King's College London, London.
- Chirav Dave: Arizona State University, USA.
- Meghanto Majumder: University of Oregon starting, USA.

## Information Technology

- Ankit Aich: Rochester Institute of Technology, USA.
- Torsha Majumdar: University of Texas, USA.
- Enayatul Haque, University of Münster, Germany.
- Rohan Bhattacharya: University of Kaiserslautern, Germany.
- Sharmiṣṭha Bhattacharya: RWTH Aachen University, Germany.

## Electronics and Communication Engineering

- Ankita Ghosh: University of Calgary, Canada.
- Satyaki Chatterjee: University of FAU Erlangen-Nurnberg, Germany.
- Debadreeto Bhattacharaya: Technical University Dresden, Germany.
- Sabarna Choudhury: University of Minnesota, USA.
- Shreyasi Bandyopadhyay: University of Minnesota, USA.
- Souvik De: University of Colorado Boulder, USA.
- Rudrendu Mahindar: University of Southern California, USA.
- Sankhadeep Dutta: University of Texas, Dallas.
- Pooja Basak: FAU Erlangen Nuremberg, Germany.
- Asif Islam: Technical University of Ilmenau, Germany.

# Electrical Engineering

- Ankush Mukherjee: University of Stuttgart, Germany.
- Saptarshi Mukherjee: University of Applied Sciences Darmstadt, Germany.
- Sayandeep Sen: University of Houston, USA.
- Sounak Biswas: University of Calgary, Canada.
- Prayati Dutta: Virginia Polytechnic Institute & State University, USA.

## LIST OF FEW DISTINGUISHED ALUMNI

DEPARTMENT	NAME	DESIGNATION	ORGANIZATION
Information Technology	Dr. Pradipto Biswas	Assistant Professor	Indian Institute of Science, Bangalore
Computer Science & Engineering	Dr. Swapnoneel Roy	Assistant Professor	School of Computing, University of Florida
Electronics & Communication Engineering	Dr. Ayan Sengupta	Research Associate	School of Clinical Medicine University of Cambridge
Computer Science & Engineering	Dr. Parantapa Goswami	Researcher	Rakuten Institute of Technology, France
Electronics & Communication Engineering	Dr. Sourav Roy	Postdoctoral Research Fellow	Southern University of Science & Technology, China
Electronics & Communication Engineering	Dr. Soumya Kanti Dutta	Research Engineer	Eurecom- Communication System, France: Co- Founder: Future Tech Lab
Electronics & Communication Engineering	Dr. Kallol Basu	Industry Partner	Enterprise Application Services at TCS, UK
Electrical Engineering	Dr. Samapriti Bhattacharya	Founder	Founder- Hydroswarm
Computer Science & Engineering	Vikas Gupta	Entrepreneur	Human fractal
Electrical Engineering	Dr. Anusna Chakraborty	Research Assistant	University of Cincinnati

**Student Centric Policy:** Provision for scholarship as per the government's directive and selection as per the discretion of the Director.

# FACULTY INFORMATION

1. **Prof. (Dr.) Sujit Kumar Biswas:** Dean (Academics) and HOD of Electrical Engineering.
2. **Dr. Mousumi Dutta:** HOD of Computer Science & Engineering.
3. **Dr. Prasun Chowdhury:** HOD of Electronics & Communication Engineering.
4. **Dr. Arindam Chakraborty:** HOD of Information Technology.

The HODs are assisted by a team of **54 qualified teachers** out of which **19 are PHD Qualified** and rest are Post Graduates.

# PLACEMENT

Year	Total Students Eligible	No. of offers	Maximum CTC
2022 (just started)*	233	51	8,00,000.00
2021	219	294	8,00,000.00
2020	229	295	10,00,000.00
2019	231	234	8,00,000.00

**\*Campus Process started from July 2021.**

# RECRUITERS

Cognizant, Infosys, ITC Infotech, Nomura, IndusNet Technologies Pvt. Ltd., Wipro, Czar Securities Private Limited, L & T Infotech, Chickpea, 42Hertz Software India Pvt Ltd, Deltecs Infotech Pvt Ltd, Yodlee, Capital Via Global Research Ltd, Optimize IT Systems.

# CURRICULUM & TEACHING-LEARNING PROCESS-IMPLEMENTATION

## Lesson planning by Teachers using different Course Delivery Methods

- e learning facility with dedicated digital platform for students.
- e-evaluation System.
- Lectures, Tutorials.
- Presentations (PPT and Videos).

- Experimental Laboratory Work and Virtual lab work.
- Group tasks (Projects, GDs).
- Hand-outs, Web resources.
- Collaborative & independent learning.

## **Methodologies to support slow learners and to encourage bright students**

- Counselling/ Mentoring system Cell available.
- Every faculty counsel 15-20 students every week.
- Remedial and Laboratory classes are conducted.
- Encouragement for student to participate in seminars and involve in research work.
- Encouragement to take up mini projects.

## **FACILITIES**

### **Common Facilities:**

#### **Computer Centre for Students**



A Central Computer Centre with seventy odd terminals is exclusively available to the students for their use of internet and intranet facility during and after college hour. Internet and intranet access are provided through wired and wireless connections backed by high end servers. Back-up servers are available for worst case conditions. Students use the terminals for internet surfing, downloading of study materials, e-journals, project materials, problem solving, and programming practice etc.

#### **Smart Class Rooms**

All the classrooms are equipped with modern teaching aids.



## Playground

Football Ground and Cricket Ground 100m x 60 m: Badminton Court 13.4 m x 6.1 m.



## Open Air Stage

Open air stage for cultural events.



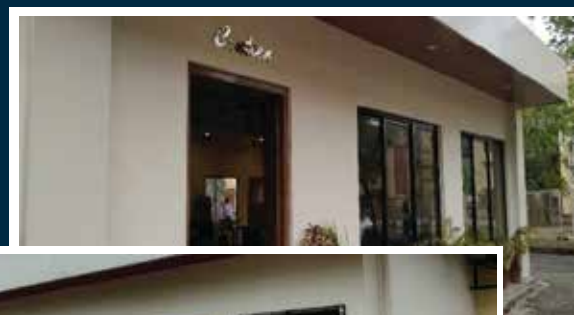
## Common Room for Boys and Girls

The Common Room is a place which provides a place of interaction amongst the students of the college. Boys' common room is equipped with 2 Table Tennis and 2 Carrom Boards whereas the girls' common room is equipped with 1 Table Tennis and 1 Carrom Boards. The Common Room is open for the students from 11:30 a.m. to 8 p.m. on week days and from 11.30 a.m. till 5 p.m. on Saturday.



## Canteen

The college canteen is available for the students throughout the day. The students have a variety of dishes to choose from like Chinese, South Indian, Bengali etc. Snacks are also available for the students. The canteen has 8 staff who can serve approximately 50 students simultaneously.



## Digital Library and Information Centre

The Central Library and Information Centre has a rich collection of Books along with Print Journals, Technical Magazines and Periodicals. The central library also subscribes IEEE e-journal package. The e-journals of the Central Library can be accessed throughout the campus as it is IP based. The Central Library subscribes dailies like the Telegraph, The Statesman, Times of India, The Indian Express, Asian Age and Employment News.



## Internet and Intranet

The Institution has two dedicated Internet Connections. The college has a computer centre where students may use internet facility after college hours as well.

All computers are LAN connected.



## Industrial Training

The students undergo either summer or winter internship programme to gain a hands-on experience and deal with real life problems.



## Companies

GE Motors, WBSETCL, WBSEDCL, CESC, Durgapur Thermal Power, Bhilai Steel Plant, South Eastern Railway, DVC, PRASAR BHARATI, AIRPORT AUTHORITY OF INDIA, Levcon Controls Private limited, N.F. RAILWAY, Tech Clusters Pvt. Ltd., Dirac Business Solutions, XFactor Digital.

## Career Counselling Industry Professional and Academician



## Different Cells and Clubs for Student's Participation

### NSS

- Street play was conducted depicting domestic violence and gender Discrimination against women by Electrical Engineering Department.
- 5 students from 2nd and 3rd year participated in the “Swachhathon 1.0” where they attempted to solve certain societal problems with technological solutions.
- Female students of the college were sensitized about the need for self-defence.
- Red Ribbon Club was formed under Ministry of Health and Family Welfare, Govt. of W.B. Anti Tobacco Workshop, AIDS awareness, Mental health awareness programme are some of the notable activities.
- Students participated in various training programmes where they work for the underprivileged sections of the society.



## Research & Professional Development Cell

- Lectures on emerging topics.
- Arranging FDP.
- Organizing seminar / conference / workshops.
- Promoting in-house research.
- Promoting professional society memberships & activities.



## Entrepreneur Development Cell



- Guest Lectures.
- Skill development programmes.
- Industry visits.
- Business plan competition.

## Sports & Games Cell

### Notable activities

- Boys Football Tournament Champion: Girls Hardware vs Software Football.
- Inter Department Badminton Tournament: Inter Departmental Table Tennis Tournament.
- Boys Cricket Tournament Champion: Girls Hardware Vs Software Cricket.
- Annual Sports.





## Art & Culture Cell

- The 1st year students secured the 2nd position in the annual fest, 2018 of St. Xavier's College, Kolkata for their band performance.
- The college band performed in the finals of RHAPSODY, Calcutta Medical College Fest.
- Photography Competition.
- Folk Studio- annual singing competition.
- INQUIZTIVE- annual quiz competition.



## Anti Ragging Cell

Ragging is strictly prohibited and to facilitate this there is one anti-ragging cell with active participation of the teachers and students.

