

TAGORE ENGINEERING COLLEGE

(A Member of Tagore Institutions Chennai)

Approved by AICTE, New Delhi Affiliated to Anna University, Chennai
Rathinamangalam, Vandalur - Kelambakkam Road, Chennai, Tamil Nadu 600127, India.

www.tagore-engg.ac.in, E-mail: principal@tagore-engg.ac.in



CODEX

THE NEWSLETTER OF COMPUTER SCIENCE AND ENGINEERING

January 2022 - June 2022



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Vision of the department

To create an environment which is conducive to produce competent Computer Science Engineers through quality education and research-oriented education and equip them for the needs of industry and society.

Mission of the department

The Department strives to contribute to the expansion of knowledge in the discipline of Computer Science and Engineering by Adopting an efficient teaching learning process in concurrence with increasing industrial demand. Ensuring technical proficiency, facilitating pursuing higher studies and carrying out Research and Development activities. Developing problem solving and analytical skills with deep knowledge in thorough understanding of basic sciences and Computer Science Engineering. Infusing managerial and entrepreneurship skills to become ethical, socially responsible, and competitive professionals.

CHAIRPERSON MESSAGE

Tagore Engineering College has been a forerunner in recognizing the needs of the industry and integrating knowledge with professional inputs. Our college is one of the most eminent Higher Education Institutions today, and it is renowned for the standards of its facilities, students and alumni. By maintaining a team of core faculty members, who are constantly pushing the frontiers of knowledge, we ensure a futuristic approach that keeps pace with the changing trends in the professional world through our global perspective.

Our primary commitment is to find the true potential of our students and equip them for the future, by providing them with the necessary skills, knowledge, and values. We achieve this goal through our unrelenting efforts to enhance the Quality of Education, Research, and Diversity on our campus. I consider this a great opportunity, privilege, and an honour to lead such a progressive educational establishment.



PRINCIPAL MESSAGE

Greetings to All, I am Dr. D. Ravindran Principal of Tagore Engineering College. It is my pleasure to brief you about Tagore Engineering College which was started in the year 1998 and is growing in leaps and bounds under the dynamic leadership of Dr. M. Mala, Chairperson of Tagore Educational Trust.

Our Tagore Institution has served this society by developing competent and renowned technocrats, scientists, researchers and successful entrepreneurs. Recently, Our Institution has achieved 100% results and ranked 4th in Anna University among 441 Non-Autonomous Engineering Colleges in Tamil Nadu.

With regard to research activities, our faculties have brought around 6.5 crores worth of funded projects and many international publications to their credit. Many international and National level conferences have been successfully organized in this Institution for the benefit of students and academicians.



We have achieved 91% placement of our eligible students in various reputed organizations throughout India. The highest package offered this year for our students is 10 Lakh per Annum. We strongly believe that the character is more important than anything else. Hence, we give top priority to students' discipline and impart character within them as the primary task to develop them as good citizens.

I sincerely thank the dedicated faculties for their untiring work towards the development of our Institution.

I wish all the students and faculty including the alumni of our Institution great success in every walk of their life.

Thank you everyone.

AWARDS

Heartfelt Congratulations

Our chairperson *Dr. M. Mala* conferred
with the award

“Academic Union Oxford”

for the Outstanding Excellence in Education by
Achievements Forum -UK



Certificate Excellence in Quality

For innovative approach in science and education, high alumni level and aspiration
to the international quality standards in teaching

presented to

Tagore Group of Institutions, India
Chairperson and Managing Trustee Dr M. MALA

Has been recognised as one of the Managers of the Year

The Socrates Committee
Oxford, UK 2021



Registration No:EQ042018-083

DEPARTMENT ACTIVITIES

PUBLICATIONS

- Guest Lecture on "Real Time Application for Oracle" by Mr. S. Nijamudhin, Sr. Software Developer, HCL, Chennai and Mr. Saikant Vasant Shinde, I.T Analyst, TCS, Chennai on May 9, 2022.
- Webinar on "Client and Server-Side Programming Technique" by Mr. T.S. TamilSelvan, Software Engineer – Doodle Blue Innovation Pvt. Ltd. On April 9, 2022.
- Webinar on "Cloud computing and IT Industry Trends" by Mr. T. Sanjay, Specialist Engineers – DevOps and Cloud Infrastructure, Wipro Technologies, Chennai on April 2, 2022.
- Guest Lecture on "AI in our day-to-day life" by Ms. S. Anju, Associate System Engineer, IBM, Chennai.
- The department organized Building Web Application with AWS by Ms. Sangeetha Sankar, System Engineer, Infosys Bangalore on May 11, 2022.
- Workshop on "Cyber Security" by Mr. A.S. Balaji, Assistant Professor, MGR University, Chennai on March 24, 2022.

- Guest Lecture on "Information on Community Cloud in Distributed Systems" by Ms. Subha Hari, Performance Architect, IBM on February 8, 2022.
- Guest Lecture on "Knowledge of Machine Learning Techniques" by D. Meenakshi, Assistant Professor, Tagore Engineering College on January 6, 2022.
- Workshop on "Building Web Application with AWS" by Ms. Sangeetha Sankar, System Engineer, Infosys Bangalore on May 11, 2022.

STAFF ACTIVITIES

- S. Arivarasana, Dr. S. Prakashb, Dr. S. Surendran, "An Energy Efficient QoS Routing Protocol based on Red Deer Algorithm in MANET," Turkish Journal of Computer and Mathematics Education, vol. 12, no. 5, pp. 1461-1471, 2021. (Scopus Indexed Journals).
- Selvalakshmi B, Subramaniam, M & Sathiyasekar K, "Semantic Conceptual Relational Similarity Based Web Document Clustering for Efficient Information Retrieval using Semantic Ontology," KSII Transactions on Internet and Information Systems, vol. 15, no. 9, ISSN: 1976-7277, DOI: 10.3837/tiis.2021.09.001.
- P. Selvakumari, Dr. D. Sheela, Dr. A. Chinnasamy, "Chew's Second Delaunay

- Triangulation Refinement Scheme for Optimal RSUs Deployment to Ensure Maximum Connectivity in Vehicle to Infrastructure Communication," Wireless Personal Communication (Springer).
 - B. Gobinathan, M. A. Mukunthan, S. Surendran, K. Somasundaram, Syed Abdul Moeed, P. Niranjana, V. Gouthami, G. Ashmitha, Gouse Baig Mohammad, V. K. Shanmuganathan,
 - Yuvaraj Natarajan, K. Srihari, Venkatesa Prabhu Sundramurthy, "A Novel Method to Solve Real Time Security Issues in Software Industry Using Advanced Cryptographic Techniques," Hindawi Scientific Programming, vol. 2021, Article ID 3611182, 9 pages, <https://doi.org/10.1155/2021/3611182>.
- FDP
- Ms. B. Selvalakshmi, received the certificate of appreciation for delivering a guest Lecture titled “Development and Delivery of E-Content and E-Course for Teaching Staff” on May 9, 2022, at Tagore Dental College and Hospital.
 - Mr. Sherwin Jeyaram Azariah participated in Kurukshetra’22, The Battle of Brains, An International Techno-Management Fest held at the College of Engineering Guindy from April 5 to April 8, 2022.
 - Mr. Adithya Murugan participated in Kurukshetra’22, The Battle of Brains, An International Techno-Management Fest held at the College of Engineering Guindy from April 5 to April 8, 2022.
 - Mr. S. Sanjay Kumar participated and won the Trophy and Medal in ARS Cricket Zone Open Tournament held on April 23, 2022, in Perungalatur.
 - Mr. J. Gopinath participated and won the Trophy and Medal in ARS Cricket Zone Open Tournament held on April 23, 2022, in Perungalatur.
 - Ms. V. Vidya completed her certification in “Python for Beginners- Learn all the basis of Python” on April 1, 2022, on Udemy.
 - Mr. Amarnath. D, from the house of Cauvery, secured 2nd place in the inter-house competition Basket Ball for the year 2022 in the 23rd Annual Sports Meet, Tagore Engineering College.
 - Mr. R. Sangaradoss participated in a 1-hour workshop on “Power Python” conducted by LUDIFU in January 2022.

STUDENT ACTIVITIES

- Mr. Ananda MuthuKumar participated in Kurukshetra’22, The Battle of brains, An International Techno-Management Fest held at the College of Engineering Guindy from April 5 to April 8, 2022.

- Mr. R. Sangaradoss participated in a 7-day online workshop on “ML and Python Boot camp” from March 15, 2022, to March 22, 2022.
- Ms. S. Vishnupriya, 3rd Year, participated in the Entrepreneurship Awareness Program held on March 24, 2022, organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Ms. S. Sneha, 3rd Year, participated in the Entrepreneurship Awareness Program held on March 24, 2022, organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Ms. G. Avanthika, 3rd Year, participated in the Entrepreneurship Awareness Program held on March 24, 2022, organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. Karthik. M, 3rd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. Sakthivel. C, 3rd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Ms. S. Shalini, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. Subash. E, 3rd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. S. Mahakavi, 3rd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. S. Praveen Kumar, 3rd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Ms. B. Lekha, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development &

Entrepreneurship Cell in association with MSME Development Institute of India & IIC.

- Ms. M. Pruyavarshini, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. S. Logeshwaran, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. M. Anish, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. Sangaradoss, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.
- Mr. K. Srimon Dass, 2nd Year, participated in the Entrepreneurship Awareness Program held on 24th of March, 2022, Organized by the Research and Development & Entrepreneurship Cell in association with MSME Development Institute of India & IIC.

- Mr. E. Subash, 2nd Year, attended the session on “Design Thinking – Leveraging the Power of Your Mind” on 22nd Jan 2022 from 10.00 am to 11.30 am, organized by Intellect Design forDigital.
- Mr. E. Subash, has been awarded First Price for Technical Quiz at the National Level

Technical Symposium “ELYTRICO-2K22” on 10th March 2022 Organized by Department of Electrical and Electronics Engineering, AMET Deemed to be University, Chennai.

- Mr. E. Subash participated in the event Technical Quiz of the 11th National Level Technical Online Symposium ORKESTRIM 2K22 held at SRM Valliammai Engineering College on 12th March 2022.
- Mr. E. Subash, has participated in the National Level Technical Symposium “ELYTRICO-2K22” on 10th March 2022 organized by the Department of Electrical and Electronics Engineering, AMET Deemed to be University, Chennai.
- Mr. Subash has participated in the Online “UGC CARE & INTELLECTUAL PROPERTY RIGHTS (IPR) organized by Knowledge Innovation of Research Centre, India in 2022

STUDENT PLACED

- Ms. S. Shamili placed in Qspiders & MPHASIS.
 - Mr. S. Surya Prakash placed in Qspiders
 - Ms. Susmitha T placed in MPHASIS
 - M. Deepa placed in Qspiders
 - Ms. Evangelin Jenifer placed in Qspiders
 - Mr. R. Srivatsan V placed in Tech Mahendra
 - Mr. M Raghavendran Placed in Cognizant Technology Solutions
 - Ms. A. Yogesh was placed in Sutherland as an Associate Engineer.
 - M. J. Indhu was placed in Sutherland as an Associate Engineer.
 - Mr. P. Kishore Reddy was placed in Wipro Limited as Project Engineer.
 - Mr. Yogesh A was placed in Think Synq.
 - Ms. Shamili S was placed in Think Synq.
 - Mr. P. Kishore Reddy was placed in ThinkSynq.
 - Mr. S. Deepak was placed in Think Synq. as Associate Engineer.
 - Mr. S. Deepak was placed in Sutherland as an Associate Engineer.
 - Ms. M. Anupriya was placed in Sutherland Limited as Project Engineer.
- Ms. Sanjana Ganguli. Placed in Cognizant Technology Solutions and TCS.

EDITORIAL BOARD

Chief Editor

- Dr.D.Ravindran M.E.Ph.D.,

Editor

- Dr.S.Surendran M.E, Ph.D
- Dr.B.Selvalakshmi M.E

Technical Assistance

- Surya Prakash S
- Anandha Muthukumar S
- Sowmiya B

Note : The Editorial Committee invites articles from staff members and students on various topics of academic, personal development etc. Articles may be mailed to: codexnewsletter@gmail.com



Courses Offered

U.G. Courses

- B.E. – Aeronautical Engineering
- B.E. – Computer Science and Engineering
- B.E. – Electronics and Communication Engineering
- B.Tech. – Information Technology
- B.E. – Mechanical Engineering

P.G. Courses

- M.E. – Applied Electronics
- M.E. – Computer Science and Engineering
- M.E. – Environmental Engineering
- M.E. – Manufacturing Engineering
- M.E. – Power Electronics & Drives
- M.B.A. – Management Studies

Tagore Group of Institutions

- Tagore Medical College & Hospital
- Tagore Dental College & Hospital
- Jerusalem College of Engineering
- Tagore College of Arts & Science
- Hilton Teacher Training Institute
- Hilton Matriculation Higher Secondary School.

