

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.

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CODEX

THE NEWSLETTER OF COMPUTER SCIENCE AND ENGINEERING

January 2021 - June 2021



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 Quality in Education, Research, and Diversity on our campus. I consider this a great opportunity, privilege, and 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 has been 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 a 100% result and is ranked 4th in Anna University among 441 non-autonomous Engineering Colleges in Tamil Nadu.

Regarding research activities, our faculty members 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 a 91% placement rate for 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 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*

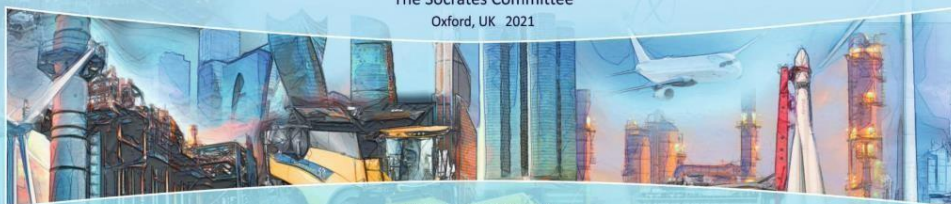
For innovative approach in science and education, high alumni level and aspiration
to the international quality standards in teaching

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

- Guest Lecture on "Satellite Switched TDMA (SS/TDMA)" by Mr. S. Richi from Birlasoft Tech, Chennai on January 7, 2021.
- Webinar on "AWS in Cloud Computing" by Dr. Ms. B. Selvalakshmi, Assistant Professor at Tagore Engineering College on April 9, 2021.
- Webinar on "Information Retrieval Techniques" by Ms. B. Thammeemunnisha, Associate Software Engineer at Tech Mahindra on April 21, 2021.
- Webinar on "Knowledge on Testing Domain in the Work World" by Abinaya VK, Public Speaker and Associate Consultant at Atos Syntel Pvt Ltd., Pune, on April 22, 2021.
- Webinar on "Node.JS" by Mr. T. S. TamilSelvan, Software Engineer at Doodleblue Innovation on May 1, 2021.
- Webinar on "Multifaceted Features of Python in the Field of Image Processing" by T.R. Kamalesh Kumar, Software Engineer at Accenture, Chennai, on July 29, 2021.

STAFF ACTIVITIES**PUBLICATIONS**

- S. Arivarasana, Dr. S. Prakash, 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 (2021), pp. 1461-1471. (Scopus Indexed Journals).
- Selvalakshmi, B., Subramaniam, M., & Sathiyasekar K. (2021), "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 the Software Industry Using Advanced Cryptographic Techniques", Hindawi Scientific Programming, Volume 2021, ID3611182, pp,1-9
<https://doi.org/10.1155/2021/3611182>

FDP

- Mrs. B. Selvalakshmi attended the 5-day Faculty Development Program on "Research Innovation in Computer Vision" from May 10, 2021, to May 14, 2021, organized by the Department of Computer Science and Engineering, Kings Engineering College, Chennai.
- Mr. Sudheer Reddy organized a Five-Day Online Faculty Development Program on Cloud Computing from May 24, 2021, to May 28, 2021.
- Mrs. B. Selvalakshmi attended the 5-day Faculty Development Programme on "Open Source Tools for Data Analytics" organized by the Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai, from May 24, 2021, to May 28, 2021.

STUDENT ACTIVITIES

- Mr. Anish. M participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Anish. M participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by at Tagore Engineering College, Chennai.
- Mr. Anish. M participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. D. Dinesh participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. D. Dinesh participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. Anish. M had successfully attended the "Security Awareness" Webinar in #YacSociety.
- Mr. D. Dinesh participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.

- Ms. G. Trisha participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. G. Trisha participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. G. Trisha participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. Infant Ludi Melba. M participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. Infant Ludi Melba. M participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. Infant Ludi Melba. M participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. K. Kamesh participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. K. Kamesh participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. K. Kamesh participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. M. Sneka participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. M. Sneka participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. M. Sneka participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. R. Sangaradoss participated in the webinar on "Data Encryption using Graph

Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.

- Mr. R. Sangaradoss participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. R. Sangaradoss participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. Saravanan Sridhar participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Saravanan Sridhar participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Saravanan Sridhar participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. Sai Mukesh participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21,

2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.

- Mr. Sai Mukesh participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Sai Mukesh participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. S. Swetha is hereby awarded the certificate of achievement for the successful completion of "Build a Face Recognition Application using Python" at Guvi Tech on April 24, 2021.
- Mr. V. Tharun Raj participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. V. Tharun Raj participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. Sowmiya participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at

Tagore Engineering College, Chennai.

- Mr. K. Ranjith participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. S. Aruneshwaran participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. S. Aruneshwaran participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. K. Ranjith participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. K. Ranjith participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. M. Karthik participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Mahavignesh participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. Mahavignesh participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. R. Sathyavathy participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. R. Sathyavathy participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. S. Savishree participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. S. Savishree participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Ms. Sowmiya participated in the webinar on "Data Encryption using Graph Labelling" conducted on April 26, 2021, by the

Department of Science and Humanities at Tagore Engineering College, Chennai.

- Mr. V. Kumaran participated in the webinar on "Brain-Based Learning and Learning Skills" conducted on April 21, 2021, by the Department of Science and Humanities at Tagore Engineering College, Chennai.
- Mr. S. Aruneshwaran participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. M. Karthik participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. M. Lawanya participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. Maha Vignesh participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. S. Savishree participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.

- Ms. Sowmiya participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Mr. V. Kumaran participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. R. Sathyavathy participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.
- Ms. S. Shalini participated in the webinar on "Renewable Energy Innovations-Overview" conducted on May 5, 2021, by the Department of Electrical and Electronics at Tagore Engineering College, Chennai.

WORKSHOP

- Mr. Anish. M participated in the "5-day Online Workshop on Java" conducted from May 24, 2021, to May 28, 2021, organized by Dr. Radha, Dr. R. Jayanthi, School of Computer Science and Engineering (SCOPE), and Dr. T. Subbulakshmi, Professor and Assistant Director, Academic Staff College (ASC) of VIT College.
- Mr. Anish. M participated in the "5-day Online Workshop on Python for Machine Learning" conducted from June 14, 2021, to June 18, 2021,

organized by Dr. Braveen M, Dr. Premalatha. M, Dr. Suganya G, School of Computer Science and Engineering (SCOPE), and Dr. T. Subbulakshmi, Professor and Assistant Director, Academic Staff College (ASC) of VIT Chennai.

- Mr. R. Sangaradoss participated in the "5-day Online Workshop on Python for Machine Learning" conducted from June 14, 2021, to June 18, 2021, organized by Dr. Braveen M, Dr. Premalatha. M, Dr. Suganya G, School of Computer Science and Engineering (SCOPE), and Dr. T. Subbulakshmi, Professor and Assistant Director, Academic Staff College (ASC) of VIT Chennai.

QUIZ

- Ms. M. Sneka participated in the E-Quiz on "Basic Electronic Sciences" conducted by the Department of Electronics and Communication Engineering, Vels Institute of Science, Technology & Advanced Studies (VISTAS) on June 6, 2020.

INTERNSHIP

- Mr. Praveen Kumar completed a 15-day "Artificial Intelligence and Machine Learning Internship Program" at AICL, Chennai, from June 7, 2021, to June 28, 2021.

- Ms. S. Swetha gained experience in "Business Development, Marketing, and Sales along with a focus on Community building for creating an impact" in the MyCaptain Campus Ambassador Program from January 13, 2021, to February 13, 2021.
- Mr. Ravikumar. T completed an internship as an "Android Application Developer Trainee" at Spectrum 7 Technologies, Chennai, from January 2, 2021, to April 5, 2021.

STUDENTS PLACED

- Mr. Sathish R has been placed in TCS and SUTHERLAND-NONVOICE.
- Ms. Anju S has been placed in Infosys, Capgemini, SUTHERLAND- NONVOICE, ASPIRE SYSTEMS, and Qspiders.
- Mr. Ravi Kumar T has been placed in ASPIRE SYSTEMS.
- Mr. Pravin Kumar S has been placed in DCKAP.
- Ms. Deepika G has been placed in Intellect Design Arena and SUTHERLAND-NONVOICE.
- Mr. Dinesh S has been placed in SUTHERLAND-NONVOICE.
- Ms. Muthunagai K has been placed in QSpiders.
- Ms. Geethanjali P has been placed in QSpiders.

EDITORIAL BOARD

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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
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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.



