ERODE SENGUNTHAR ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

OUR VISION

Vision of Erode Sengunthar Engineering College is to become a World Class Technical Institution and Scientific Research Centre for the Benefit of the Society.

QUALITY POLICY

Erode Sengunthar Engineering College is committed to impart World Class Technical Know-How to the Students from diverse Socio Economic backgrounds and to transform their lives by nurturing Multi-Skills and facilitating them to develop holistically

OUR MISSION

- Create Positive difference to Society through Innovative Teaching – Learning Process.
- Impart Value Based Technical Education to the Students from across various Socio Economic backgrounds.
- Build State of art infrastructure for high quality Research and Development capabilities on par with the finest in the Globe and widen student's horizons beyond Class Room.
- Bring out Competent, Ethically Strong and Quality Professionals.

https://erode-sengunthar.ac.in/

FACULTY PARTICIPATION IN FDP/STTP/WORKSHOPS AND SEMINARS:

- E. Loganathan and R. Punitha Gowri, Assistant Professors of Computer Science and Engineering, participated in the One-week Short Term Training Program on "Emerging Technologies" organized by Vardhaman College of Engineering, Hyderabad, from 19th to 24th December 2022.

- Additionally, R. Punitha Gowri attended another Short Term Training Program on “Research Analysis and Evaluation Techniques” at Marwadi University, Gujarat, from 26th to 30th December 2022.

- J. Rohini, Assistant Professor, attended programs on “Outcome Based Education” and “Research Writing, Plagiarism Misconception, and Authorship Issues,” both organized by Hindustan College of Engineering & Technology, Coimbatore, on 13.09.2022 and 26.08.2022, respectively. She also participated in an FDP on “Data Science using Python” conducted by NITTTR Chennai from 10.10.2022 to 14.10.2022.

BOOK CHAPTER PUBLICATIONS:

- M. Kowsalya, Assistant Professor of Computer Science and Engineering, published a book chapter titled “The Impact of Sensor Networks' Packet Redundancy Elimination Technique” as the first chapter in Research Highlights in Science and Technology Vol. 8 by BP International, India and UK, in 2023.

- Dr. G. Sivakumar, Professor of CSE, has an accepted book chapter, “Computational Intelligence For Leaf Diseases Monitoring Using UAV Images,” in the Communications in Computer and Information Science series (Springer).

BOOK PUBLICATIONS:

- T. Kalai Selvi published "C Programming and Data Structures" with Sri Krishna Hitech Publishing Company Pvt. Ltd, Chennai, in 2023.

- Dr. G. Sivakumar and Dr. A.V. Santhoshbabu co-authored "Programming in C," published by Iterative International Publishers (ISBN: 978-81-959356-6-6).

- Dr. A.V. Santhoshbabu also published "Machine Learning with its Applications in Data Sciences" (ISBN: 978-93-95422-14-7) through Shanix Publishers.

JOURNAL PUBLICATIONS BY FACULTY (2022-2023):

- Revathi published on "Finding Fake Transactions using Semi-Supervised Models" in the International Journal of Advance Research and Innovative Ideas in Education (Vol. 9, Issue 2, 2023).
- E. Loganathan published works on "Identification and Detection of Groundnut Leaf Disease" and "Cardiac Diseases Prediction using SVM with XG Boost Algorithm" in the same journal.
- Dr. G. Sivakumar contributed on "Convolution Neural Network for Brain Tumor Segmentation," "Enhanced Drug Recognition based on Decision Tree Optimized SVM," "Deep Learning Algorithms for Suicide Prediction," and "Suicidal Ideation Detection Using Machine Learning Based Hybrid Techniques" across International Journal of Advance Research and Innovative Ideas in Education, International Journal of Innovative Research in Technology, and International Journal of Intellectual Advancements and Research in Engineering Computations.
- S. Sreevidhya published on "Social Network Mental Disorders Detection via Online Social Media Mining," "Detection of Cyberbullying on Social Media Using SVM," and "Efficient Email Phishing Using Machine Learning" in various international journals.
- T. Kalaiselvi presented research on "A Heart Disease Prediction using Machine Learning Algorithms."
- R. Punitha Gowri authored papers on "Live Image Blurring using Convolutional Neural Network" and "A Model for Creating Data Repository Using Facial Recognition for Attendance Management."
- J. Rohini published "Grocery Item Detection using Android Studio."
- M. Kowsalya contributed "Click and Session Based Captcha as Graphical Password Authentication Process Using AI Technology."
- Dr. A.V. Santhosh Babu explored "Schizophrenia Stress Level Accuracy using EEG Signal Classification."
- D. Vaduganathan published works on "Tourism-Based Hybrid Recommendation System," "Medical Data Science and Processing Using Statistical Analysis in E-Healthcare for Covid-19," and "AI-Based Identification of Students' Dress Code in Schools and Universities."
- Dr. G. Sivakumar and M. Sakthivel published "Video Streaming Analytics Based on Deep Learning Deduction Using Cloud Computing" in the Gradiva Review Journal (Vol. 8, Issue 12, December 2022).

JOURNAL PUBLICATIONS BY STUDENTS

Udhayadevi, II Year M.E. CSE, published two papers:

- Plant Leaf Disease Prediction Based on Deep Learning Using U-Net Based Convolutional Neural Network" in International Journal of Intellectual Advancements and Research in Engineering Computations, Vol. 11, Issue 2, ISSN: 2348-2079.
- Plant Leaf Disease Prediction Based on Deep Learning Using R2NN-WRS: Resnet Recurrent Neural Network and Watershed Region Segmentation Techniques" in International Journal of Innovative Research in Technology, Vol. 9, Issue 11, ISSN: 2349-6002.
- Meena S, II Year M.E. CSE, published "Enhancement of Market Data Partitioning Scalability and High Dimensionality Management Using Deep Learning" in International Journal of All Research Education and Scientific Methods, Vol. 11, Issue 3, March 2023, Impact Factor: 7.42.
- Kanmani R, II Year M.E. CSE, published "Malicious URL Detection Based on Machine Learning" in International Journal of All Research Education and Scientific Methods (IJARESM), Vol. 11, Issue 4, April 2023, Impact Factor: 7.429.
- M. Sakthivel, II Year M.E. CSE, published "Video Streaming Analytics based on Deep Learning Deduction Using Cloud Computing" in Gradiva Review Journal, Vol. 8, Issue 12, December 2022. DOI: 10.37897.GRJ.2022.V8I12.22.50596.

INFOSYS SPRINGBOARD COURSE COMPLETION DETAILS

- In II Year, 22 students completed the Basics of Python course.
- 13 students completed the IoT Platform Overview course.
- 10 students completed the IoT Edge Computing and IoT Analytics course.

DEPARTMENT VISION

- To evolve as a centre of excellence in Computer Science and Engineering to serve the challenging needs of industry and society.

KARTHIKEYAN M OF III YEAR CSE B HAS PARTICIPATED IN REELS EVENT ORGANIZED BY KSR COLLEGE OF TECHNOLOGY AND WON I PRIZE

KARTHIKEYAN M OF III YEAR CSE B HAS PARTICIPATED IN SHORT FILM EVENT ORGANIZED BY COLORWOODS AND WON III PRIZE

DEPARTMENT MISSION

- To impart fundamental Computer Science and Engineering concepts and a broad set of technical skills.
- To impart fundamental Computer Science and Engineering concepts and a broad set of technical skills.
- To cultivate a research culture and innovative technologies contributing to sustainable development.
- To inculcate professional ethics, strong ethical values, and leadership abilities in students.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

- **PEO1-Core Competence:** Our Graduate will be Globally Competent Computer Science Professionals who would comprehend, understand, analyse and solve Engineering problems in order to cater to the needs of industry and society
- **PEO2-Breadth:** Our Graduates will interact with their peers in multi-disciplinary environment in industry and society and contribute to the economic growth of the country.
- **PEO3-Research and Innovation:** Our Graduates will have the ability to adapt, contribute and Research, innovate new technologies and systems in the domain of Computer Science and Engineering
- **PEO4-Professional Integrity:** Our Graduates will function in their chosen profession with ethics, social awareness and responsibility

PROGRAM SPECIFIC OUTCOMES (PSOS)

- **PSO1:** Software Development Model: An ability to design a software project using Software Development Life Cycle process.
- **PSO2:** Advanced Technology Skills: An ability to develop application using Computing and Communication Technologies.
- **PSO3:** Personality Development: Able to inculcate Effective Communication, Team Work, Ethics and Leadership skills in a preparation for a successful career in Industry.

EDITORIAL BOARD: