ERODE SENGUNTHAR
ENGINEERING COLLEGE

(AUTONOMOUS)

PERUNDURAI,ERODE DISTRICT – 638057

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

NEWS LETTER
2024-2025 (ODD SEM)

CONTENTS

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

DEPARTMENT OVERVIEW

The Department of Computer Science and Design (CSD) is an interdisciplinary academic unit that bridges the gap between traditional computer science and the creative fields of design and user experience. This unique blend empowers students to become well-rounded professionals capable of designing innovative, human-centered digital solutions.The Department focuses on core areas of computer science such as programming, algorithms, data structures, artificial intelligence, and software development, while also integrating principles of visual design, interaction design, user interface/user experience (UI/UX), and digital media. The curriculum is tailored to meet the growing industry demand for professionals who can think both technically and creatively.

VISSION

To offer a strong prominence on creating technically talented individuals in the Department of Computer Science and Design who can recognize global challenges based on necessity and act accordingly with responsibility.

MISSION

- To get strong on the basics of computer science and design by analyzing the concept's logic with real time scenarios.
- To promote research activities related to latest technology and society.
- To make ongoing efforts to cultivate sense of social accountability in the students.
- To implant the skills of the students to become a successful engineers andentrepreneurs.

CORE VALUES

- Interdisciplinary Learning
- Creativity and Innovation
- User-Centered Approach
- Ethical and Responsible Technology
- Collaboration and Teamwork
- Adaptability and Lifelong Learning

ASSOCIATION ACTIVITIES

The details of programmes organized by department of Computer Science and Design for the welfare of the students under the banner of Guest lecture, Workshop, Seminar, Leaders' talk and Seminar by Industrial experts are given below:

COMPUTER SCIENCE AND DESIGN

- The Department of Computer Science and Design has organized one day seminar on "Ethical Hacking and Cybersecurity" with the resource Person Mr.K.Sudhakaran, Consultant of Cybersecurity, L&T Infotech,Bangalore on 27.08.2024.
- The Department of Computer Science and Design has organized 2 Days workshop on "Unity Game Development: From Concept to Creation" with the resource person Mr.M.Ashokkumar, Founder|Educator|Developer, Praya Labs, Tiruvannamalai from 23.09.2024 to 24.09.2024.
- The Department of Computer Science and Design has organized 2 days workshop on "Industry Safety Training Simulation using Virtual Reality" with the resource person Ms.K.Vijaya, Assistant Professor, Department of CSD, Kongu Engineering College from 05.09.2024 to 06.09.2024.

- The Department of Computer Science and Design has organized 2 days workshop on "Virtual Reality–Assisted Structural Health Monitoring and Inspection using Drones" with the resource person Mr.M.Ashokkumar, Founder|Educator|Developer, Praya Labs, Tiruvannamalai from 03.10.2024 to 04.10.2024.

- The Department of Computer Science and Design has organized 2 days seminar on "Visionary design in Pioneering the Future of Work" with the resource persons Mr. P.K.Kishore,Head of Partnership and Ms.A.Alis Petrecia, Zenanvibe Knowledge Hub on 16.10.2024.

EVENTS PARTICIPATION BY FACULTIES

- Ms.M.Indumathi, Assistant Professor and Ms.E.Angel Anna Prathiba, Assistant Professor, Department of Computer Science and Design have participated in 5-Day FDP cum workshop on "Image Processing using Python Programming" organized by Department of Computer Science and Engineering, Indian Institute of Information Technology, Kottayam from 10.06.2024 to 14.06.2024.

- Ms.S.Sivaselvi, Assistant Professor, Ms.J.S,Sharanyanivasini, Assistant Professor, and Mr.K.Pathmanaban, Assistant Professor, Department of Computer Science and Design have participated in the Anna University Sponsored Faculty Development Training Programme on " CCS349 - Image and Video Analytics " organized

by KPR Institute of Engineering and Technology, Coimbatore from 10.06.2024 to 15.06.2024.

- Ms.M.Indumathi, Assistant Professor, Department of Computer Science and Design has attended 21 Days Online Masterclass on "Machine Learning" organized by Pantech Solution Tech from 10.06.2024 to 30.06.24

- Ms.M.Indumathi, Assistant Professor, Department of Computer Science and Design has participated in Faculty Development Programme on "Mathematical Approach to AI&ML Algorithm at PSG Institute of Technology, Coimbatore from 23.07.2024 to 27.07.2024

- Ms.M.Indumathi, Assistant Professor, Department of Computer Science and Design has attended one week online Professional Development Program on "NLP Unleashed:Cutting Edge Methods and Applications" organized by Vardhaman College of Engineering, Hyderabad from 27.08.2024 to 31.08.2024

- Mr.K.C.Palanisamy Assistant Professor and Mr.K.Pathmanaban, Assistant Professor, Department of Computer Science and Design have participated in the Anna University Sponsored six Days FDTP on "CCS332 App Development" organized by K.Ramakrishna College of Engineering, Trichy from 18.06.2024 to 22.06.2024.

- Ms.S.Sivaselvi, Assistant Professor and Ms.M.Indumathi, Assistant Professor, Department of Computer Science and Design has participated in AICTE Training and Learning (ATAL) Academy Faculty

Development Program on "Generative AI with Knowledge Graphs" at Vellore Institute of Technology Chennai Off Campus from 02.09.2024 to 14.09.2024.

- Mr.K.C.Palanisamy, Assistant Professor, Department of Computer Science and Design has participated in the workshop on "IoT:Current Applications and Emerging Trends" at Karpagam College of Engineering, Coimbatore on 27.09.2024.

- Ms.J.S.Sharanyanivasini, Assistant Professor of Computer Science and Design has participated in 6-Days ATAL FDP on "Micro and Optic Fiber Sensor" organized by Department of Electronics and Communication Engineering, Vellore Institute of Information Technology, Vellore from 23-09-2024 to 28-09-2024.

- Ms.S.Sivaselvi, Assistant Professor, Ms.M.Indumathi, Assistant Professor, Ms.E.Angel Anna Prathiba, Assistant Professor and Mr.K.Pathmanaban, Assistant Professor, Department of Computer Science and Design has participated in the DRDO sponsored 2 Days National Level Seminar on "Quantum Computing and National Security: Implications for Defense Systems" organized by Department of Computer Applications, Kongu Engineering College from 14.10.2024 to 15.10.2024.

- Ms.J.S.Sharanyanivasini, Assistant Professor, Computer Science and Design has participated in the online webinar on "IEEE Xplore" organized by Velalar College of Engineering and Technology, Erode on 22.10.2024.

GUEST LECTURES/ LEADERS TALK

- Subject experts from premier institutions and organizations were invited to deliver Special Lectures in emerging areas of science and technology. The details are given below:

S.No.	Name & Designation	Organization	Date of Visit	Purpose of visit
1	Mr.T.Rajan AP/CSE&IS	School of Engineering, Presidency University,Bangalore	18.10.2024	Hands on Training Experience for High Performance Machine Learning

INTERACTION TO INDUSTRIES

S.No.	Name & Designation	Organization	Date of Visit	Purpose of visit
1	Mr.Paramesh G Assistant Professor	REVA Academy for Corporate Excellence (RACE), REVA University, Bangalore.	25.11.2024	Generative AI
2	Dr.S.Kayalvili Associate Professor Artificial Intelligence	Kongu Engineering College, Perundurai	26.11.2024	Machine Learning in Cybersecurity
3	Dr N.Suganthi Professor	Kumaraguru College of Technology, Coimbatore	27.11.2024	Ethical Hacking Tools
4	Dr V.Vanitha Professor	Kumaraguru College of Technology, Coimbatore	27.11.2024	Ethical Hacking Tools
5	Dr. V. Sowmya, Associate Professor,	Amrita School of Artificial Intelligence, Amrita Vishwa Vidyapeetham, Coimbatore	28.11.2024	Image Analysis in AI
6	Dr. Muthaiah U Assistant Professor (Selection Grade)	Amrita School of Computing, Amrita Vishwa Vidyapeetham, Chennai	29.11.2024	Deep Learning

WORKSHOP, SEMINAR, LEADERS' TALK AND SEMINAR BY INDUSTRIAL EXPERTS:

- The Department of Computer Science and Design has organized one day seminar on "Ethical Hacking and Cybersecurity" with the resource Person Mr.K.Sudhakaran, Consultant of Cybersecurity, L&T Infotech,Bangalore on 27.08.2024.

- The Department of Computer Science and Design has organized 2 Days workshop on"Unity Game Development: From Concept to Creation" with the resource person Mr.M.Ashokkumar, Founder|Educator|Developer, Praya Labs, Tiruvannamalai from23.09.2024 to 24.09.2024.

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JOURNAL PUBLICATIONS BY THE FACULTY

- Dr. S.Tamil Selvan, Associate Professor of Computer Science and Design has published a paper on "Application Based Review of Soft Computational Methods to Enhance Industrial Practices Abetted by the Patent Landscape Analysis", in Wiley Interdisciplinary Reviews:Data Mining and Knowledge Discovery,2024;0:e1564 https://doi.org/10.1002/widm.1564

- Ms.S.Sivaselvi, Assistant Professor, Department of Computer Science and Design has published a paper on "Low Power and Enhanced Data Retention Time in DRAM in FinFETTechnology" in International Conference on Communication, computing and Internet of Things(IC3IOT)|979-8-3503-5268-9/24

- Ms.M.Indumathi, Assistant Professor, Department of Computer Science and Design has published a paper on "Skin Disease Detection and Diagnosis using Deep Neural Networks" in 15th International IEEE Conference on Computing, Communication and Networking Technologies,IIT,Mandi

PATENT PUBLICATIONS BY THE FACULTY

- Mr.K.C.Palanisamy, Assistant Professor, Computer Science and Design has published a patent on "Artificial Intelligence and IOT in

based credit card fraud detection using MachineLearning algorithms" with the Application No. 202441048101 Dated 22.06.2024
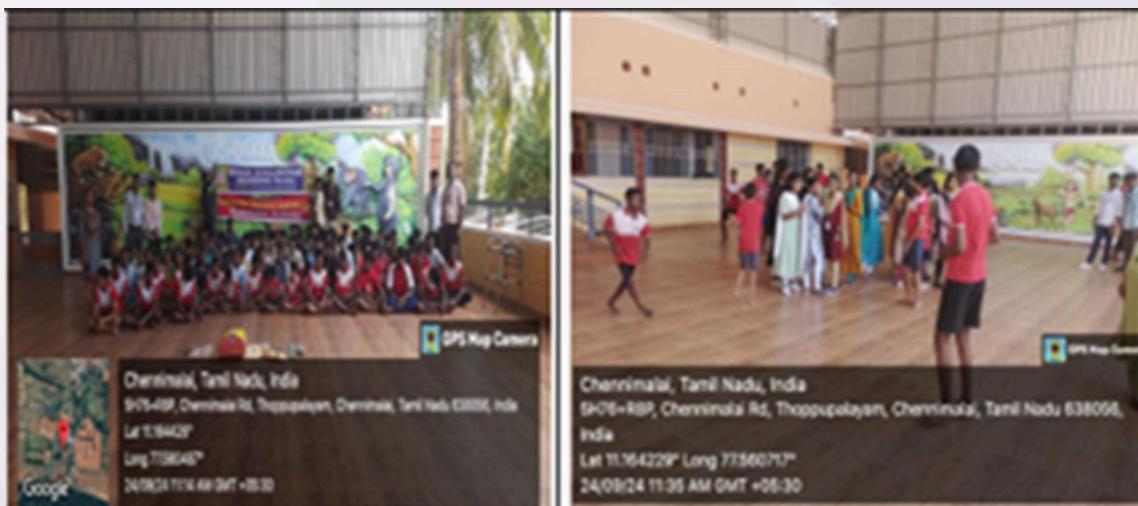
- Mr.K.Pathmanaban, Assistant Professor, Computer Science and Design has published a patent on " Block chain and AI-Based Secure Digital Advertising System for Real-Time Targeting Fraud Prevention in Social Media" on 06.09.2024 with the Application No.202421064002.

GYMPSES OF EVENTS ORGANIZED

- Ms.E.Angel Anna Prathiba, Assistant Professor and 45 students of III Year Computer Scienceand Design organized an Extension activity at Siva Sharmila Home Integrated Complex(Old-age & Child Orphanage) and conducted activities for children and also provided 50kg rice bags on 09.09.2024.

- Mr.K.C.Palanisamy, Assistant Professor and 35 students of II Year Computer Science and Design organized an Extension activity at Udhayam-A Special School for MentallyChallenged people (Recognized by State Commissioner for the Differently Abled, Proc No 7081/RD//4 /2012,CMI Father's Residence), Chennimalai and provided 26kg rice bags andGrocery items(Green Moong Dhal,Toor Dhal, Brown & White Chickpeas) on 24.09.2024.

- Ms.M.Indumathi, Assistant Professor and 25 students of IV Year Computer Science andDesign organized an Extension activity at Atchayam Trust - Rehabilitation Home of mentallychallenged & differently abled orphanage for old-age persons and donated big size Steel Rack on 27.09.2024.

- Mr.K.Pathmanaban, Assistant Professor and 31 students of IV Year Computer Science and Design organized an Extension activity at phoenix Vision charitable trust and old-age home(Reg no 37/BK4/2018),Erode and provided 26kg rice bag , Atta 10 kg and Grocery items(Green Moong Dhal,Toor Dhal, Sugar ,Salt, Turmeric powder,chilli powder,sambar powder,white rava,Garlic jeera,pepper etc) on 30.09.2024.

- Ms.J.S.Sharanyanivasini, Assistant Professor and 25 students of IV Year Computer Science and Design organized an extension activity at Helping Hearts Children Home, Erode and provided grocery items (Groundnut, Sambar powder, Chilli powder, Cooking oil) on17.10.2024.

INDUSTRIAL TRAINING ATTENDED BY STUDENTS

- Selvan B.Mahesh Kumar of IV Year Computer Science and Design has won Third Prize in the event "Short Film' in National Level Technical Symposium organized by Sreesakthi Engineering College on 16.11.2024.
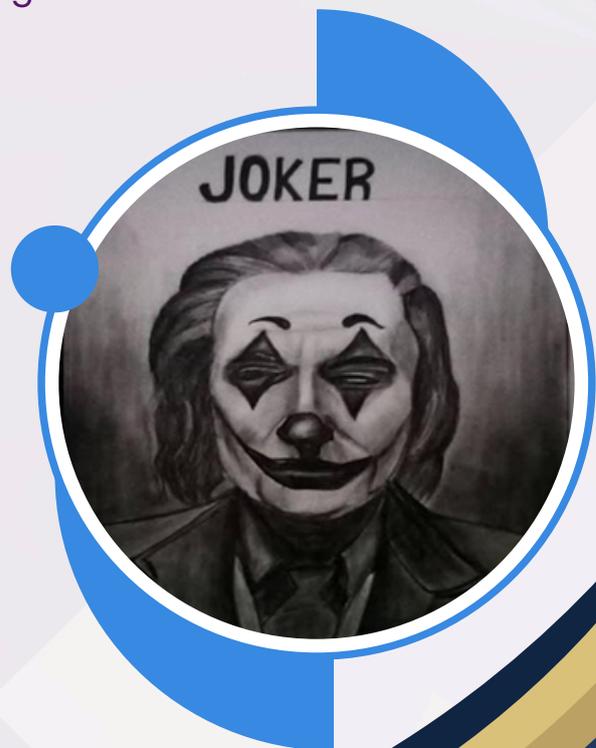
DETAILS OF PAPER PRESENTED BY STUDENTS

- Selvan A.Abishek, Selvan M.Abinesh, Selvan D.Dharanprasath, Selvan D. Gandhiraj , Selvan K.N. Mahesh Varman, Selvan G. Monishwar, Selvan A. Narayanan, Selvan Sripandiyaraj, Selvan S. Sritharan and Selvan S.Vijay of III Year Computer Science and Design has attended the One Day National Level Workshop on "Artificial Intelligence and Machine Learning" conducted by VEI Technologies Pvt. Ltd, Chennaiat Sree Sakthi Engineering College, Coimbatore on 16.11.2024.

- Selvi S.Keerthi, Selvi C.Kiruthika and Selvi D.Sri Asothai of II Year Computer Science and Design has attended the One Day National Level Workshop on "Artificial Intelligence and Machine Learning" conducted by VEI Technologies Pvt. Ltd, Chennai at Sree Sakthi Engineering College, Coimbatore on 16.11.2024.

- Selvan R.Deepak, Selvan A.Dharaneeshwar, Selvan D.Jawahar,Selvan T.Logesh Selvan S.Mugilarasan, Selvan S.Priyadharshan, A.P.Sanjay, Selvan B.Sanjay, Selvan V.Vignesh and Selvan S.Vimal Vignesh of II Year Computer Science and Design has participated in the DHR-ICMR Sponsored Two Days National Level Workshop on "Utilizing AI for Metagenomics:Insights into Microbiome Data analysis" at KPR Institute of Engineering and Technology from 28.11.2024 to 29.11.2024.

EXTRA-CURRICULAR ACTIVITIES BY STUDENTS STUDENTS ACTIVITY CORNER

DRAWING

- The drawings were created by R.Aarthi, a student of III Year Computer Science and Design
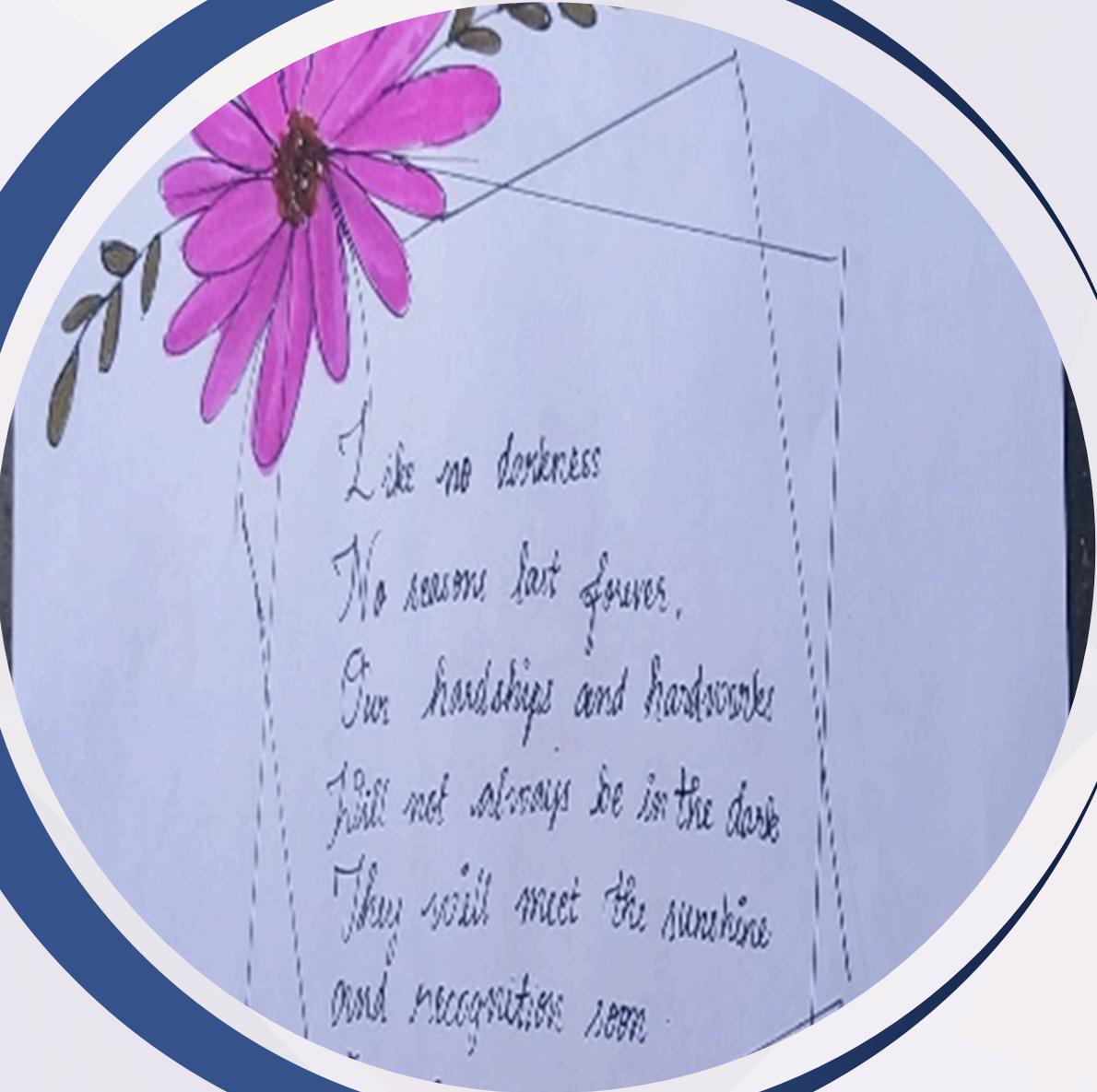
POETRY WRITING (TAMIL OR ENGLISH)

- The poem was written by students of the Computer Science and Design Department
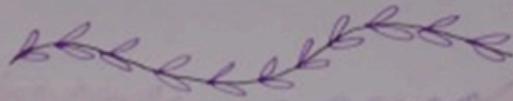
R.SATHEESWARI III YEAR

While planting stars in the sky
that no one sees,
I forgot to add water to the
plants in my own garden
The garden within me
Which await for the ray of
Hope.....
And drops of self love....

Like no darkness
No seasons last forever.
Our hardships and hardworks
Will not always be in the dark
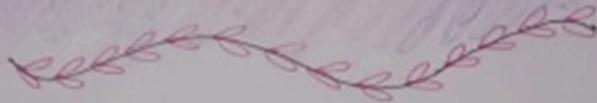They will meet the sunshine
and recognition soon.

P.HARINIASWITHA III YEAR

young soul
in Dream

A young soul mourns in broken tune
beneath the faded moonlit gloom
Its heart a rose, clenched in pain
with petals, withered by unseen tears

P. Hariniaswitha
CSD - III rd year

EXTRA-CURRICULAR ACTIVITIES BY STUDENTS STUDENTS ACTIVITY CORNER

- Our college cricket team won first place in the ESEC Alumni Inter-Collegiate Cricket Tournament. Selvan S.Ashwinkumar, a student of III Year Computer Science and Design, participated in this tournament