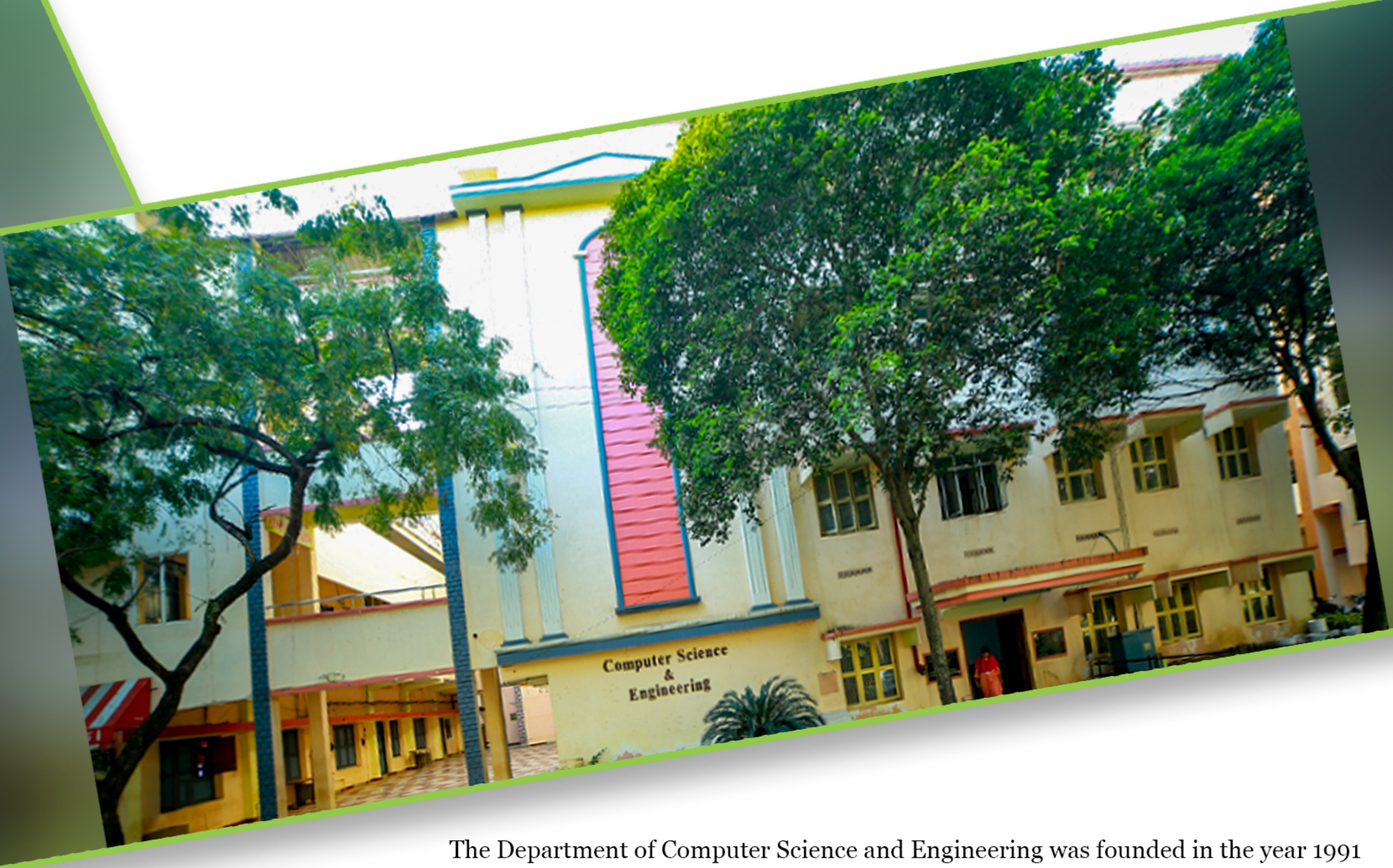# S R K R ENGINEERING COLLEGE
(AUTONOMOUS)

COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of S R K R Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

WORKSHOPS & SEMINARS

One day workshop on "DevOps" was organized by Department of Computer Science & Engineering on 18th Mar,2023. where 272 students participated in both workshop and the Speakers are Keerthi Kota and Srikanth Reddy Arika

A Seminar on "Some Automated Functions in Space System" is being organised by the Department of Computer Science & Engineering on 17th Mar, 2023 in which the resourse person is Dr. MYS Prasad ,Former ISRO Director

A Technical Event named "Codenite" is being organised by the Department of Computer Science & Engineering on 25thMar, 2023
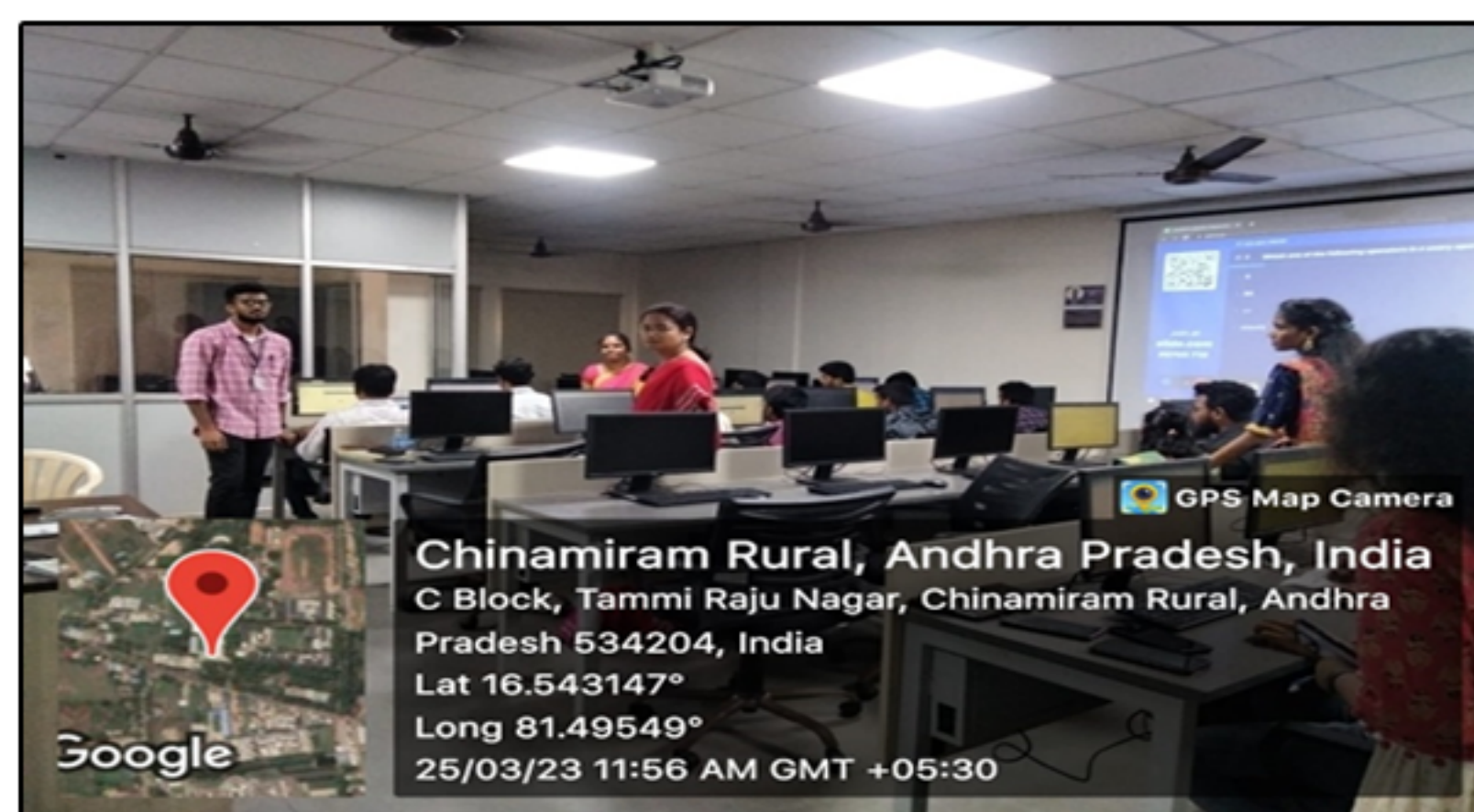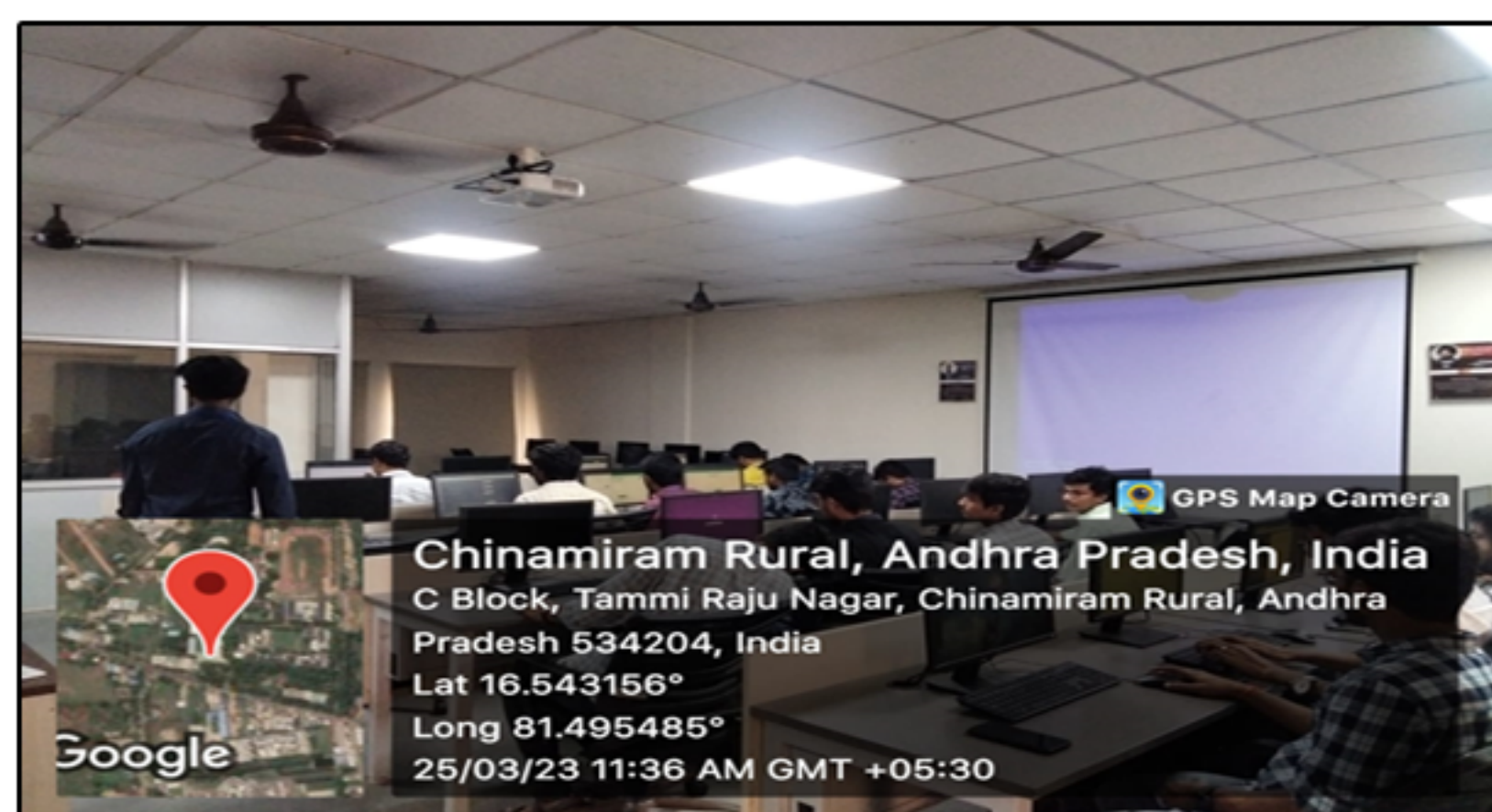
One-day seminar on "World Environment Day (WED)" is being organised by the Department of Computer Science & Engineering on 5th June,2023 where 228 students attended the seminar

OUTREACH EVENTS

Awareness on Latest Technologies was conducted by the Department of Computer Science & Engineering on 13th Mar, 2023 for the students of Z.P.H School in which 75 students participated.

A Awareness Program on "Stay safe online" was conducted by the Department of Computer Scienece & Engineering on 27th Feb, 2023 for the students of A.R.K.R High School to make them understand about Internet Safety.

OUTREACH EVENTS

Awareness on "Program Traffic" by the Department of Computer Science & Engineering on 7th Mar, 2023 for the students of A.R.K.R School in which 75 students participated.
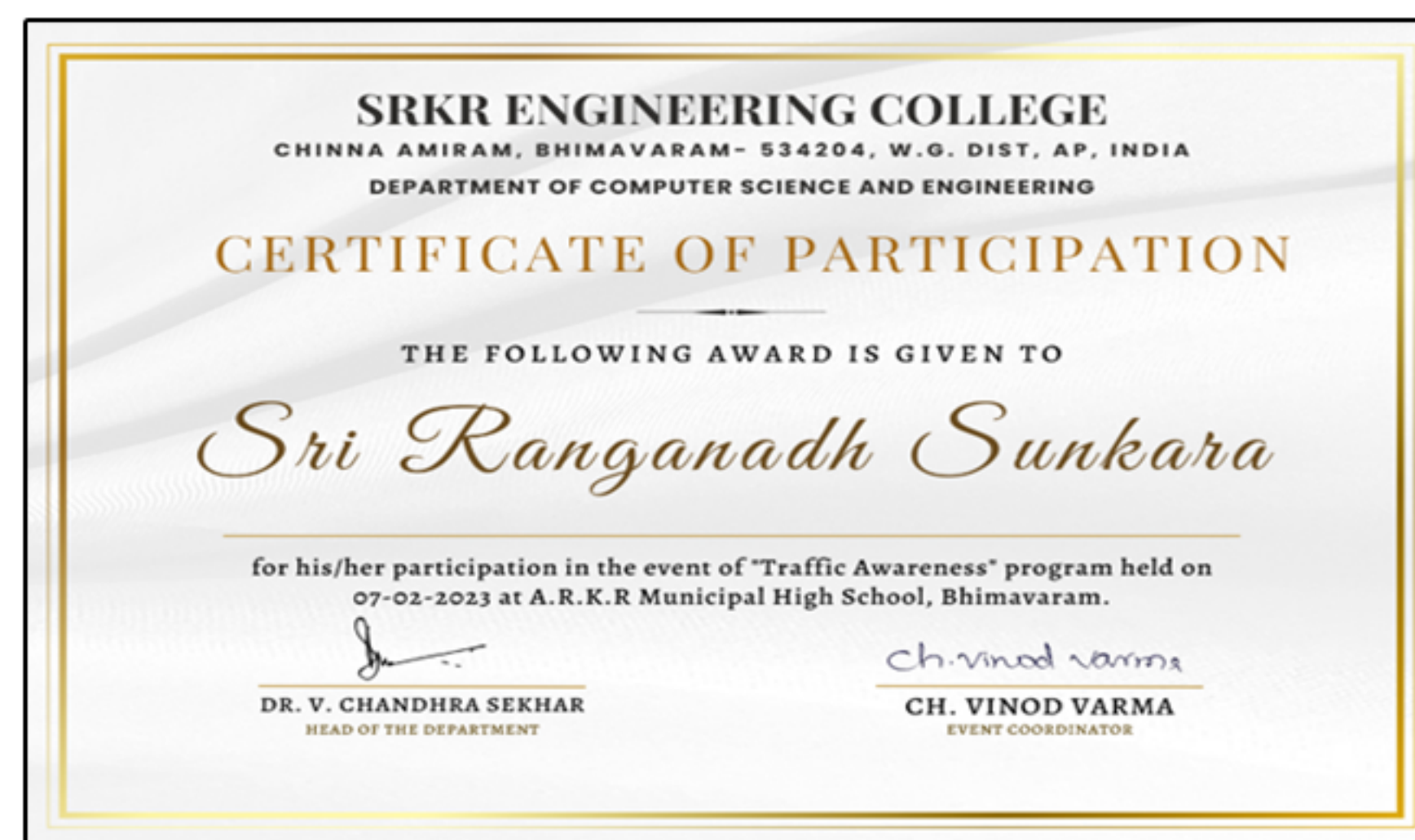
ACE STUDENT ACTIVITIES

ONTAKO 2K23

"Ontako 2k23" held from 2nd Feb to 4th Feb, aimed to provide a real-time placement drive experience for 3rd year students. Rounds included coding, group discussions, and interviews. Top performers were recognized winners, receiving prizes and certificates.

The event was conducted in a structured manner, with rounds held on separate days. Rd 1 included MCQs and coding, Rd 2 had group discussions, and Rd 3 involved HR and technical interviews. Winners included Charan Sai (1st), Balaji (2nd), Jahnavi (3rd), and Sai Soumya (4th).

PRAJWALAN

"PRAJWALAN" was a Hackathon organized by the CSE department. The event had a prize pool of 30,000/-. It consisted of three rounds: Idea Submission, Idea Presentation, and Grand Finale held from 16th Feb to 24th Mar. Participants formed teams of 3-6 members and developed prototypes within 24 hours. Winners were awarded cash prizes and certificates.

"PRAJWALAN" was a Hackathon targeting tech-inclined individuals. Participants submitted ideas, presented them, and competed in a 24-hour coding event. The event received a huge response, with over 26,602 impressions and 420 registrations for the initial rounds. A total of 311 participants made it to the Grand Finale. Winners included Binary Brains (1st place), Lunch Box (2nd place), and Sign Squad (3rd place). They were awarded cash prizes and certificates.

FROLIC

A cultural event was conducted for CSE 3rd-year students on February 4th from 2pm to 5pm in the CSE New Seminar hall. The event featured 15 performances and began with a devotional song at 2:15pm. The principal and HOD presented prizes to the winners of ONTAKO at 3:30pm, and the performances continued until 5pm.

SPURTHI 2K23
21/03/2023

Codenite Winners : S.Manikanta, Padam Jagadeesh
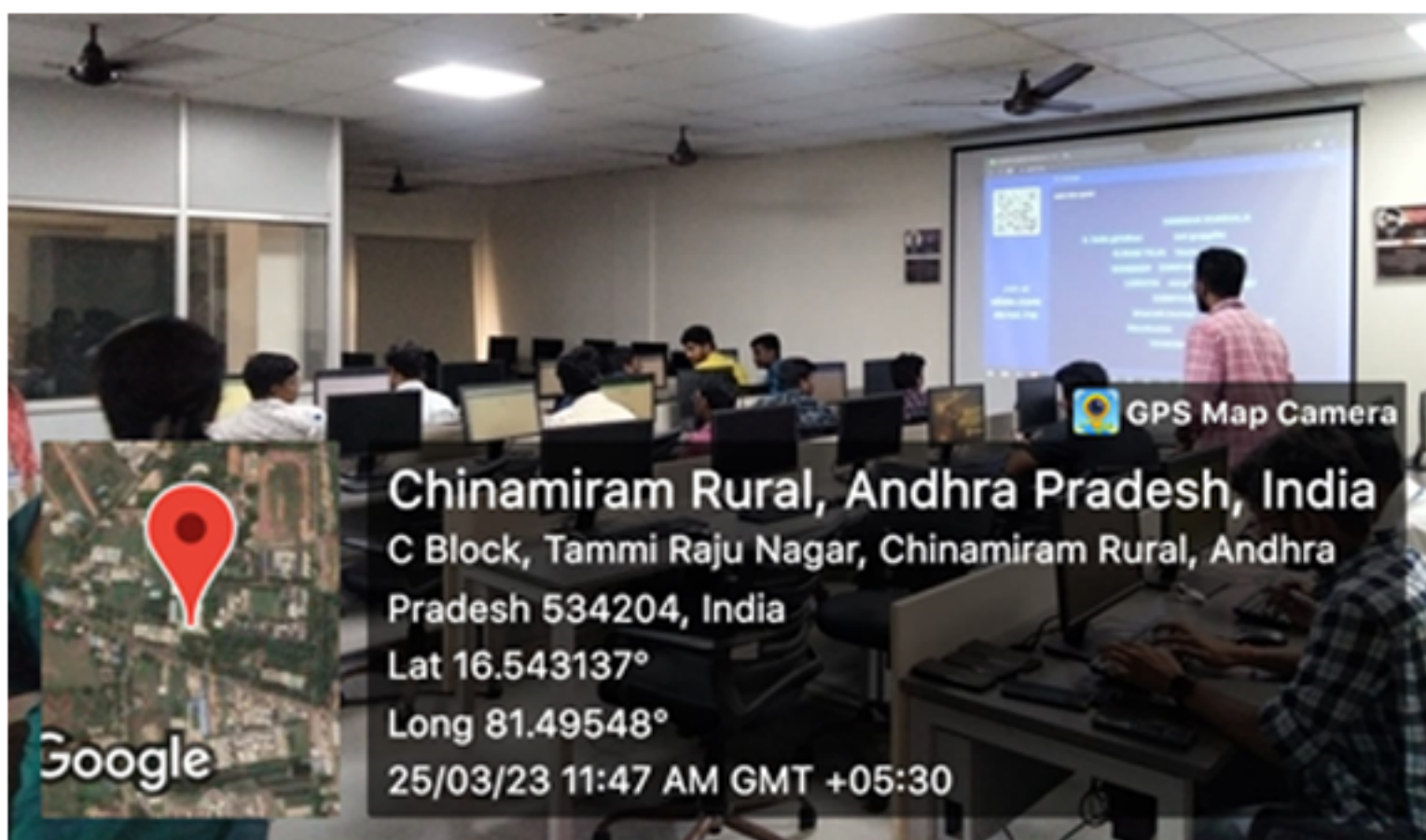
Esports: BGMI, Call of Duty, Free Fire

Pirates Loot Winners: Kavya, Sahithi, Navya, Neeharika [1/4 CSE]

Pitch Perfect : Sai Pranay, Askgar
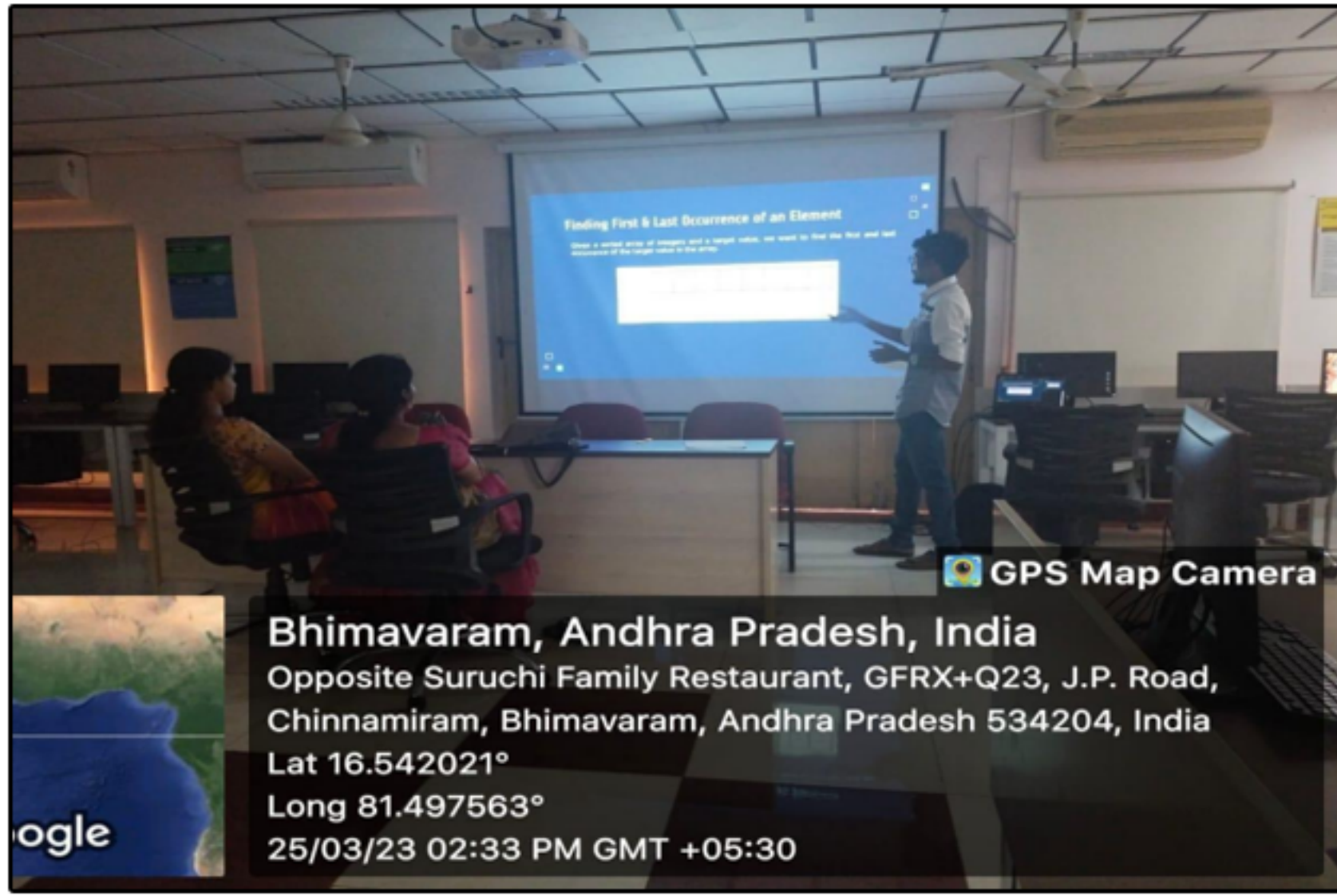
Fight Club : Ch Chiranjeevi Deepak, D Narendra Varma, A Karthik
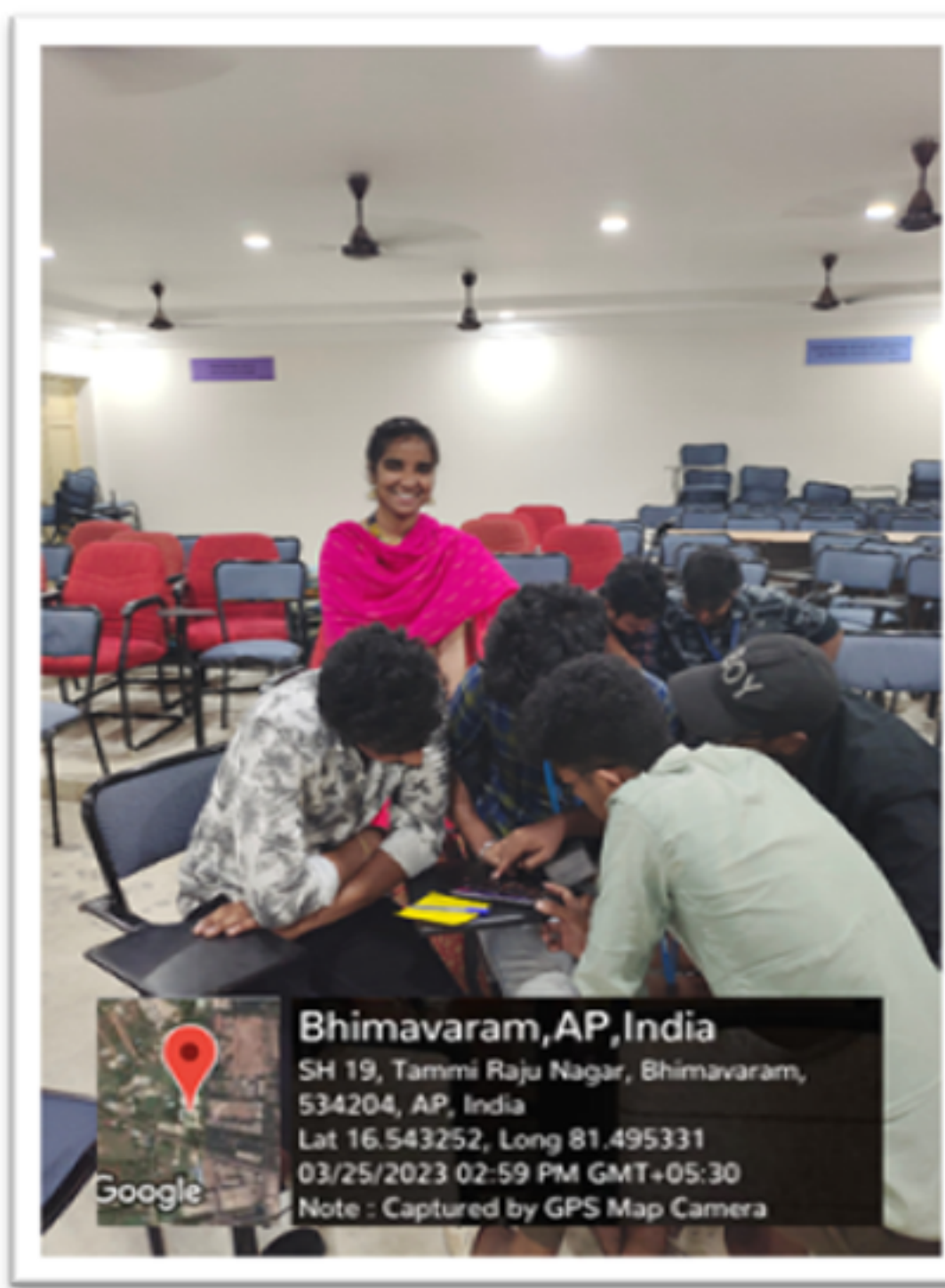
Fun Castle - Flip Tic Tac Toe, Mad Route, Beer Pong, Pyramids

FACULTY PUBLICATIONS

Dr. N. K. Kameswara Rao has published a journal on "Hybrid optimal joint spatial-spectral hyperspectral image classification"

Suresh Kumar Samarla has published a journal on "Machine Learning Techniques for Autism Spectrum Disorder Speech Characteristics"

Pamula Udayaraju has published a journal on "ANN secured communication strategy for vehicular ad hoc network", "Efficient medical image security and transmission for telemedicine applications", "Gradient weighted CNN model for diagnosing COVID-19 using X-ray images" and "Energy-efficient IoT agriculture network using region-based clustering"

Dr Chinta Someswara Rao has published a journal on "Ultrafast parallel genome extractor"

Dr Srihari Varma Mantena has published a journal on "Human gait recognition using GAN model and dwarf mongoose optimization" and "Twitter sentiment analysis on online food services using elephant herd optimization"

Ch Ravi Swaroop has published a journal on "Framework for recurrent breast cancer prognosis using deep learning techniques"

LV Srinivas, Chitri Rami Naidu have published a journal on "Sign language recognition using mining techniques"

P. Bharat Siva Varma has published a journal on "Hybrid Approach for Drug Recommendation System based on Sentiment Analysis"

Gadiraju Mahesh has published a journal on "Optimal machine learning model for predicting web browsing patterns"

Hemalatha Dendukuri, A.L.Lavanya have published a journal on "Machine learning-based healthcare system for IoT"

Chitri Rami Naidu has published a conference paper on "Accurate Machine Learning Models for Predicting Exo-Planets' Habitability"

D.N.S.B.Kavitha, Prasad Reddy P.V.G.D, Venkata Rao. K have published a conference paper on "Emotion Recognition in Tweets Using Optimized SVM and KNN Classifiers" in "Advances in Signal Processing, Embedded Systems and IoT"

Dr. G N V G Sirisha has published a journal on "Recognizing human activities using lightweight machine learning methodologies"

R. Shiva Shankar has published a conference paper on "RNN-LSTM based Profession Recommendation System on Social Media Forums"

L. Divya has published a conference paper on "Stochastic Modelling and Real-Time Solution for SCPP problem in IoV"

Reddy SS, Alluri L, Gadiraju M, Devareddi R have published a conference paper on "Forecasting Diabetic Foot Ulcers Using Deep Learning Models" in "Networks and Systems Book Series"

PATENTS FILED BY FACULTY

| IPR Category & Title	Applicants	Number	Year
Smart Home EnergyManagement System using Internet of Things	Dr. Vempati Srinivasa Rao, Dr. Inumula Veeraraghava Rao, Mr. Lakkakula Hari Prasad, Mr. Valaparla David, Mr. Mohammad Fareed Ahamad, Dr. Nynalasetti Kondala Kameswara Rao, Dr. K. Selvakumari, Dr. Devaraj Pavan Kumar,Dr. Ashish Verma, Mrs. Sherry Nasir	202341000251	2023
Design and Development of Multi-Layered Security System Using Cryptography and Steganography	Mr. A. Raghuvira Pratap, Ms. Macharapu Madhavi, Ms. Velavolu Sravanthi, Mr. Chitri Rami Naidu, Mrs. Y. Meghamala, Mr. Mandala Rajkumar, Dr. I. V. Prakash, Mr. Syed Muqthadar Ali, Mr. V. Rakesh, Dr. A. Ugendhar	202341016440	2023
Image Processing based Expert System for Bill of Materials Calculations for Civil Structures	Dr. S. Sriram, Dr. Gopal Krishna Upadhyay, Mr V V Sivaramaraju, Ms. Ganta Mounika, Dr.S.Sumathi, Dr. G. Balaji Ponraj, Mr. Naveen Kumar S M, Dr Amarnath Shetty, Dr. Rupak Sharma, Ms Pendlimarri Manisha	202331000501A	2023

BOOKS PUBLISHED
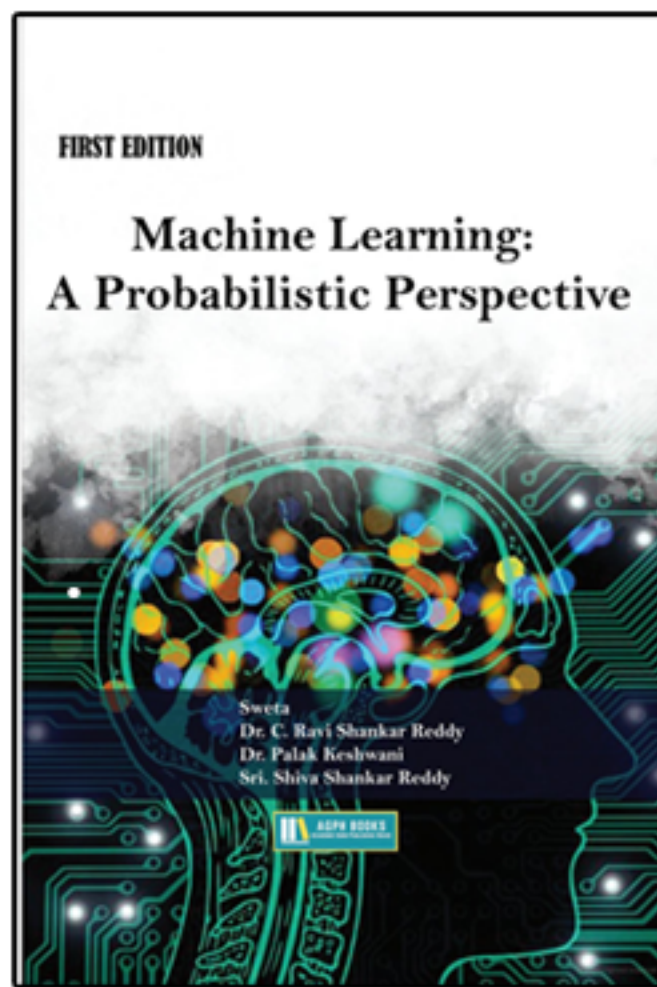
Authors: Dr. C Ravi Shankar Reddy, Dr. Palak Keshwani, Sri. Shiva Shankar Reddy, Sweta

Title : Machine Learning: A Probabilistic Perspective

Publisher: AGPH Books
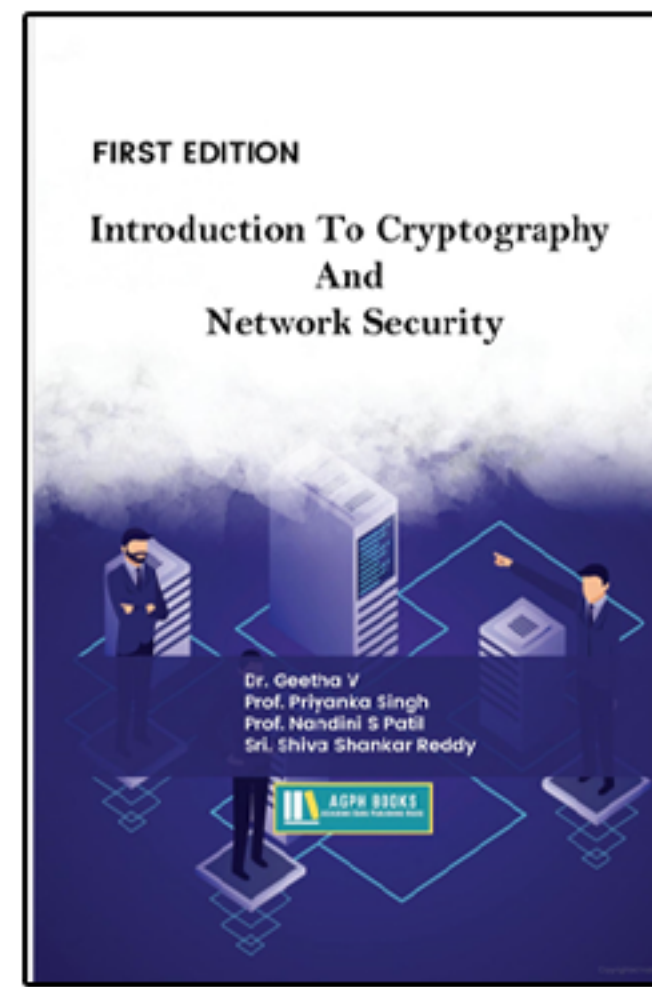
Authors: Prof. Priyanka Singh, S. Patil Nandini, Sri. Shiva Shankar Reddy, Dr. Geetha V

Title : Introduction to Cryptography & Network Security

Publisher: AGPH Books

VISION

To envision a diverse, stimulating, continually improving academic and research environment to fulfill the needs of the society and to mould students as socially responsible and competent professionals in the field of computer science and engineering.

MISSION

To provide a strong theoretical and practical background across the computer science and engineering discipline with an emphasis on software development.

To impart modern technologies with industrial, academic and research collaboration.

To inculcate professional behavior, strong ethical values, leadership abilities and impart the skills necessary to continue education for professional growth.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1 : Graduates of the program will become significant component of computer industry with basic and specialized knowledge in Computer Science and Engineering blended with knowledge in mathematics and modern technologies.

PEO2 : Graduates will have adequate knowledge and technical skills for continuous education and research.

PEO3 : Graduates are prepared to be socially responsible computing professionals/entrepreneurs by creating necessary environment that fosters the graduates' communication, presentation, teamwork, leadership skills, and professional ethics.