

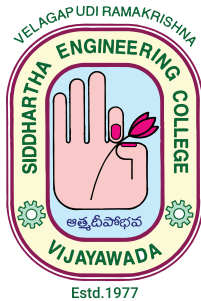


Department of  
**COMPUTER SCIENCE AND ENGINEERING**

# NEWSLETTER

Volume: 12

Issue: 1



## VELAGAPUDI RAMAKRISHNA **SIDDHARTHA ENGINEERING COLLEGE**

(AUTONOMOUS)

(Sponsored by Siddhartha Academy of General & Technical Education)

Approved by AICTE | Affiliated to JNTUK Kakinada

Accredited by NAAC with 'A+' Grade | An ISO 21001:2018 Certified Institution

[www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)

## Governing Body Members



**Sri. Dr. CH. Nageswara Rao**  
President, SAGTE



**Sri. P. Lakshmana Rao**  
Secretary, SAGTE



**Sri. M. Rajaiah**  
Vice-President &  
Convener, SAGTE



**Dr. A V Ratna Prasad**  
Principal, VRSEC



**Dr. D. Rajeswara Rao**  
Prof. & HOD: CSE Dept.

## About CSE Department

The Department of Computer Science and Engineering was established in the year 1985 with its cohesive team of faculty members, offers a sound program at the UG as well as the PG levels. The curriculum is a blend of the conventional and the radical. It is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. Also Department has a thriving research environment with active research groups in the areas of Bioinformatics, Data and Web Mining, Information and System Security, Computer Networks, Digital Image Processing and Video Analytics.



## Faculty Improved Qualifications: 03

1. Ashutosh Satapathy Assistant Professor awarded PhD from VIT University Chennai Campus in July 2022 Title of the Thesis a Deep Learning Based Liveness Face Recognition Technique for an Intelligent Virtual Classroom Framework.
2. Jayavarapu Karthik Assistant Professor awarded PhD from Annamalai University-Chidambaram in December 2022 Thesis entitled Enhancing Data Leak Identification in Social Networks with Metaheuristic based Clustering Techniques.

## Faculty Submitted PhD Thesis: 02

1. Mrs.T.Meena submitted PhD Thesis on Study of development of coordination algorithms for drone networks VIT-AP.
2. Mrs. T.Bindu Madhavi submitted PhD Thesis on Development of Deep Learning techniques for liver and tumor segmentation from CT images VIT-AP.

## Sponsored Research & Development Projects:

### Government Funded Projects:

1. Dr. D. Rajeswara Rao, Professor and Head of the Department of Computer Science and Engineering, VR Siddhartha Engineering College, has received a grant worth Rs. 25,00,000 for a project on "Scheme to create and update general research capabilities of mentee institute" under the AICTE Margdarshan scheme, and it was sanctioned in June 2018.
2. Dr. K. Srinivas, Professor from the Department of Computer Science and Engineering, VR Siddhartha Engineering College, has received a grant worth Rs. 25,30,000 from ISRO: NESAC for a project on "Qualitative and quantitative classification of mixed bamboo forests using geospatial technology", and it was sanctioned in September 2021.
3. Dr. S. Vasavi, Professor from the Department of Computer Science and Engineering, VR Siddhartha Engineering College, has received a grant worth Rs. 17,84,920 from ISRO: NRSC for a project on "Updating of very large-scale urban GIS maps with latest very high-resolution satellite data using deep learning techniques", and it was sanctioned on June 23, 2022.

## SEED Projects:

1. Dr. G. Anuradha, Associate Professor from the department of Computer Science and Engineering, VR Siddhartha Engineering College, has received a grant worth Rs. 26,250 from SAGTE for a project on “Smart Door Lock Using Simultaneous Face Liveness and Face Detection Algorithms”, and it was sanctioned in June 2022.
2. Dr. G. Kranthi Kumar, Senior Assistant Professor from the department of Computer Science and Engineering, VR Siddhartha Engineering College, has received a grant worth Rs. 35,000 from SAGTE for a project on “Crop Yield and Price Prediction”, and it was sanctioned in June 2022.

## Events Organized:

1. 3-Day Bootcamp-cum Hackathon on IoT (Internet of Things) Technology stack and its Applications Resource Person: Mr. Sai Satish, CEO Indian Servers is organized from 7th July 2022 to 9th July 2022.



2. Interaction Program on “International Academic Collaborations” Resource Person: Prof. B.V.R Chowdari, Adjunct Professor, NTU Singapore, Senior Executive Director & President Emeritus MATERIALS Research Society of Singapore (MRS-S) on 13th August 2022 for Faculty.



3. Third Series of “Artificial Intelligence in Remote Sensing Applications” Resource Persons: Smt. Geeta Varadan, Satish Dhavan Professor, ISRO Mr Nilesh Desai, Distinguished Scientist, Director, Space Application Center, ISRO, Ahmadabad, Chief Guest Dr. Rajeev Jaiswal, Dy. Director (U&E), EDPO Programme Office, ISRO Head Quarters, Bangalore Dr. K.Venugopala Rao, Scientist SG (Retd), Group Director Urban studies NRSC, ISRO, Hyderabad Dr. SC Jaynathi, Scientist SG, Group Head, Urban Studies and Applications (USAG), National Remote Sensing Centre (NRSC), Hyderabad SmtDesiraju Padma, Sc ‘G’, Centre for Artificial Intelligence & Robotics (CAIR), DRDO, Bangalore Dr Girish Pujar, Scientist, Forest and Watershed Monitoring, NRSC-ISRO, Hyderabad Dr. K. K. Sarma, Scientist/Engineer – SG, North Eastern Space Applications Centre, Department of Space, Umiam, Meghalaya Dr Arijit Roy, Scientist SG & Head, Indian Institute of Remote Sensing, ISRO, Dehradun From 31st to 05th November 2022.



## Technical & Cultural Events:

1. TECKRAZE is conducted on 11th August 2022. 101 Students participated in the Event.
2. PARAMPARA-22 is organized on 30th September 2022. A total of 100 students participated in the Event.
3. IDEA2HACK - National Level Industry Driven 24-hour Hackathon is conducted on 13th & 14th October 2022

## Patents:

1. Dr. K. Suvarna Vani published patent on Diabetic Analyzer Unit with Ref. No 367402-001
2. Dr S. Vasavi filed patent on Under water Drone Ref No 371375-001
3. Dr. S. Vasavi published patent on Solar Power Generation Forecasting Using Ensemble Approach Based On Deep Learning And Statistical Methods Ref No 202241054828

4. Dr. Ch. Rupa Published patent on A Device For Protection Against Pedophiles Ref No 202241056359
5. Mr. Jayavarapu Karthik Published patent on An AI based System for Providing a Multibranch Blockchain with Configurable Protocol Rules Ref No 202241068167
6. Ch. Raga Madhuri published patent on Artificial intelligence algorithm utilised intelligent accident indication system to the rescue team using thriving cloud computing Ref No 202241072503
7. Dr. Sobhana Mummaneni published patent on Hazardous Gas Detection In Smart Bins Using Intelligent Waste Management Ref No 202241069274.00
8. Mukesh Chinta Ch. Raga Madhuri published patent on Artificial intelligence algorithm utilised intelligent accident indication system to the rescue team using thriving cloud computing Ref No 202241072503.00

## Student Internships:



## Student Achievements:

1. Rishita N Durga Shreya M of ¾ B.Tech Participated in Silicon Valley Meet - UIF University Innovation Fellows Program 2022 organized by Stanford University's Hasso Plattner Institute of Design (d.school).



2. Y. Sai S Hemasri & P Anil of ¾ B.Tech won 50,000/- Cash Prize (1st Prize) for National Level Hackathon – CentuRITon organized by Ramaiah Institute of Technology.



3. K Swetha of 4/4 B.Tech received 2nd Prize at National Level Virtusa Neural Hack – Season 6



4. Lokesh Chandaka of 3/4 B.Tech winner (10,000 /-Cash Prize) at National Hackathon - TNT 2022 – The Number Thing '22 on 31st December 2022 organized by LatentView Analytics.



## PROFESSIONAL BODIES ACTIVITIES:



*TECHRAZE Fest held on 11th August 2022  
in association with IEEE VRSEC WIE AFFINITY GROUP*



*Guest talk held on 20th August in association with  
ACM SIGAI Student Chapter*





*Parampara Fest held on 30th September in association with  
IEEE VRSEC WIE AFFINITY GROUP*

## Extension/ Social Service & Outreach Activities:

S. No	Name of the activity	Year of the activity / Date	Organising unit
1.	HarGharkiTiranga	25th August 2022	V R Siddhartha Engineering College Kanuru Vijayawada
2.	Plastic Collection	19th October 2022	Tadigadapa Vijayawada
3.	Awareness on Breast Cancer	29th October 2022	V R Siddhartha Engineering College Kanuru Vijayawada
4.	5K Run	20th November 2022	Labbipet, Vijayawada



*HarGharkiTiranga organized on 25th August 2022 at V R Siddhartha Engineering College Kanuru, Vijayawada*



*Plastic Collection on 19th October 2022 at Tadigadapa, Vijayawada*



*5K Run on 20th November 2022 at Labbipet, Vijayawada*



*NSS Voluteers @ Sivarathri Duty 2022, Vijayawada*



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