

Department of Information Technology

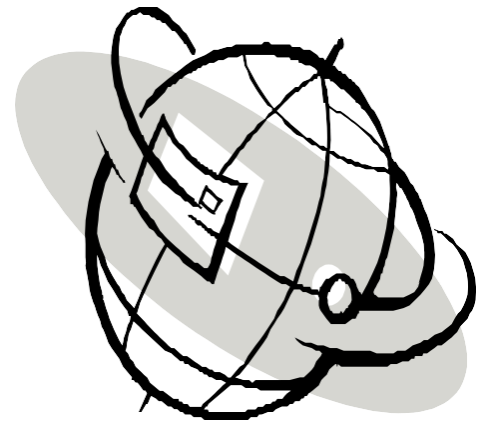
Newsletter

The Vision of the department is:

"To produce high potential Information Technology professionals for the society".

The Mission of the department is:

- To Nurture the graduates interpersonal, intrapersonal, technical and entrepreneurial skills.
- To Equip the graduates with the knowledge and skills required to contribute significantly to the industry.
- To Develop applications to solve socio and economic problems.



Program Educational Objectives (PEO's)

PEOs of the program are articulated as:
Graduates will

PEO 1: have a thorough knowledge in fundamental areas of mathematics, engineering sciences, basic sciences and computer science to solve the practical and useful problems.

PEO 2: become successful professionals with analytical, design and laboratory skills along with effective communication and collaborative skills.

PEO 3: understand the ethical, social, and global issues associated with the computing field.

Industrial Research Projects in progress

- Research project on ‘Attendance management system based on face recognition’ of Dr.V.Sesha Srinivas is in progress.
- Research project on ‘Hiding E-Maps using image steganography’ of Dr. M. Pompapathi is in progress.

Patents Published

- A.Srikrishna, M.Pompapathi, V.Sesha Srinivas, A.Yaswanth Kumar, published a patent on ‘Method And System For Providing Multimodal Interaction Assisted Autonomous Intelligent Virtual Assistant’, Application No: 202441006264 A, Feb. 09, 2024.
- B.Hemantha Kumar, M.V.Bhujanga Rao, B.Satish Babu, I. Naga Padmaja, published a patent on ‘Contextual Recommendation System Utilizing Quantum Algorithms For Enhancing User Activities’, Application No: 202341082262A, Jan. 05, 2024.

Research Paper Publications

- Padamata Ramesh Babu , Atluri Srikrishna , Venkateswara Rao Gera, ‘Diagnosis of tomato leaf disease using OTSU multi-threshold image segmentation-based chimp optimization algorithm and LeNet-5 classifier’, Journal of Plant Diseases and Protection, Vol: , Issue: , pp: , ISSN: 1861-3829, June. 2024, DOI:10.1007/s41348-024-00953-7. (Scopus, SCIE, WoS Indexed)
- Naga Venkata Sairam Yellapragada, Seelam Pichi Reddy, Vadlamudi Tara Chand, Srikanth Kumar Mangalagiri, Bandaru Satish Babu, Sameer Kumar Devarakonda, ‘The Potentiality of LHA Nanoparticle Reinforced AA2024 Composites: A Focus on Microstructure, Mechanical Properties’, Journal of International Information and Engineering Technology Association, Vol. 48, No. 3, June, 2024, pp. 401–408, DOI: <https://doi.org/10.18280/acsm.480312>. (Scopus Indexed)
- Anusha Ampavathi, Dhawaleswar Rao CH, T. Nagalakshmi, S. Muruganandam, N. Magendiran, I. Naga Padmaja, K. Selvam, Manasa Bandlamudi, ‘A Novel Approach of Cloud Computing Network for Authentication and Security Enhancement of IoT Enabled Cancer Forecasting System’, Journal of Electrical Systems, Vol: 20, Issue: 7, pp: 518-534, ISSN: 1112-5209, June. 2024, DOI: <https://doi.org/10.52783/jes.3357>. (WoS Indexed)

- Ashwin Narasimha Murthy, Ramesh Krishnamaneni, T. Prabhakara Rao, V. Vidyasagar, Ambhika. C, I. Naga Padmaja, Manasa Bandlamudi, Amit Gangopadhyay, ‘Deep Long and Short Term Memory with Tunicate Swarm Algorithm for Skin Disease Detection and Classification’, Journal of Electrical Systems, Vol: 20, Issue: 7, pp: 613-624, ISSN: 1112-5209, June. 2024, DOI: <https://doi.org/10.52783/jes.3372>. (WoS Indexed)
- M. Katyayani, Kumar Keshamoni, A. Sree Rama Chandra Murthy, K. Usha Rani, Sreenivasulu Reddy L., Yaswanth Kumar Alapati, ‘Federated Learning: Advancements, Applications, and Future Directions for Collaborative Machine Learning in Distributed Environments’, Journal of Electrical Systems, Vol: 20, Issue: 5s, pp: 165 –171, ISSN: 1112-5209, April. 2024, DOI: <https://doi.org/10.52783/jes.1900>. (WoS Indexed)
- Venkata Nagaraju Thatha, Sikhi Yalavarthi, P. A. Abdul Saleem, P. Ramani, Kotha Chandana, Kasturi Sai Sandeep, Maithili K, ‘Advanced Recognizing and Categorizing System for Alzheimer's and Parkinson's Syndromes using CNN Algorithm and Clinical Data’, Journal of Electrical Systems, Vol: 20, Issue: 6, pp: 1192–1199, ISSN: 1112-5209, Apr. 2024, DOI: <https://doi.org/10.52783/jes.2849>. (WoS Indexed)
- S.Hemalatha, Sonia Maria D'Souza, Khadri Syed Faizz Ahmad, M.Rajasekaran, Pankaj Rangaree, P. Sukania, M.Pompapathi, Ashok Bekkanti, ‘White Hole Attacker Detection In Mobile Adhoc Network’, Journal of Theoretical and Applied Information Technology, Vol: 15, Issue: 1, pp: 420–433, ISSN: 2158-107X, Mar. 2024. (Scopus Indexed)
- Chunduru Anilkumar, Meesala Shobha Rani, Venkatesh B, G. Srinivasa Rao, ‘Automated License Plate Recognition for Non-Helmeted Motor Riders Using YOLO and OCR’, Journal of Mobile Multimedia, Vol: 20 Issue: 2, 2024, DOI: <https://doi.org/10.13052/jmm1550-4646.2021>. (Scopus Indexed)
- M.Nagalakshmi, M. Balamurugan, B. Hemantha Kumar, Lakshmana Phaneendra Maguluri, Abdul Rahman Mohammed ALAnsari, Ts. Yousef A.Baker El-Ebiary, ‘Revolutionizing Magnetic Resonance Imaging Image Reconstruction: A Unified Approach Integrating Deep Residual Networks and Generative Adversarial Networks’, International Journal of Advanced Computer Science and Applications, Vol: 15, Issue: 1, pp: 420–433, ISSN: 2158-107X, Jan. 2024, DOI: 10.14569/IJACSA.2024.0150139. (Scopus Indexed)

- G.Swetha, Amutharaj, J.,Usha, S., ‘Cloud Multimedia Data Security by Optimization-Assisted Cryptographic Technique’, International Journal of Image and Graphics, Vol: 24, Issue: 1, pp: , ISSN: 0219-4678, 17936756, Jan. 2024, DOI: <https://doi.org/10.1142/S0219467824500104>. (Scopus, WoS Indexed)
- Chunduru Anilkumar, Swathi Lenka, N. Neelima, Sathish Kumar V E, ‘A Secure Method of Communication Through BB84 Protocol in Quantum Key Distribution’, Scalable Computing: Practice and Experience, Vol: 25, Issue: 1, pp: 25–33, ISSN: 1895-1767, Jan. 2024, DOI: <https://doi.org/10.12694/scpe.v25i1.2152>. (Scopus Indexed)
- Keerthi Ketheneni, Padma Yenuga, Parimala Garnepudi, Laksmikanth Paleti, Sesa Srinivas V., Naga Raju Burla, Srinivas.O, Venkata Ramana Mancha, Srikanth Meda, Narasimha Rao Yamarthi, ‘Crop, Fertilizer and Pesticide Recommendation using Ensemble Method and Sequential Convolutional Neural Network’, International Journal of Intelligent Systems and Applications in Engineering, Vol: 12 No.1(2024), ISSN: 2147- 6799, pp. 473 – 485. (Scopus Indexed)
- Prabhakar Kandukuri, Dasari N.V.SyamKumar, V. Sesa Srinivas, Chilukala Mahender Reddy, Kranthi Kumar Singamaneni, ‘Binary Image Classification on Fashion-MNIST Using TensorFlow-Quantum and CIRQ’, International Journal of Intelligent Systems and Applications in Engineering, Vol: 12 No.1(2024), ISSN: 2147- 6799, pp. 720 – 727. (Scopus Indexed)
- Ravi Babu Devareddi, Atluri Srikrishna, R.Shiva Shankar, ‘Performance Analysis of Query-Based Image Tagging Model in CBIR’, 2nd International Conference on Advancement in Computation & Computer Technologies, pp: 734–739, ISSN: 979-8-3503-7131-4, Jun. 2024, DOI: <https://doi.org/10.1109/InCACCT61598.2024.10550967>. (Scopus Indexed)

Book Publications

- Yaswanth Kumar Alapati, Kongara Srinivasa Rao, K.Sreeramamurthy, ‘Network Security Fundamentals’, Leilani Katie Publication And Press, Tamilnadu, India, 2024. ISBN: 978-93-6348-403-0.
- Kongara Srinivasa Rao, K.Sreeramamurthy, Yaswanth Kumar Alapati, ‘Introduction to Machine Learning and Natural Language Processing’, Leilani Katie Publication And Press, Tamilnadu, India, 2024. ISBN: 978-93-6348-482-5.

- K.Sreeramamurthy, Yaswanth Kumar Alapati, Kongara Srinivasa Rao, 'Modern Ethical Hacking Techniques and Principles', SK Research Group of Companies, Tamilnadu, India, 2024. ISBN: 978-93-6492-154-1.

Workshops Organized

- Two day workshop on 'Business Intelligence through Power BI' was organized for the III/IV B.Tech students during 15-16 Mar. 2024. Resource person M.Siddardha Kumar, Industry Consulting Consultant is from NTTDATA, Bangalore.

Professional body Chapter Activities

- APTICODE- Aptitude and Programming Contest on Python/C was conducted for all the B.Tech students on Feb. 26, 2024.

Conferences/Workshops/Webinars/FDPs Attended

- Bh.Krishna Mohan, seven day online FDP on 'Latest Trend and Techniques in Software Engineering: An Industry Perspective', Department of Computer Science, CHRIST, Bangalore, Jan. 20–27, 2024.
- M.Pompapathi, six day online FDP on 'Emerging Tools & Techniques in Cloud Computing & Data Science', School of CSE, Narasimha Reddy Engineering College, Hyderabad in collaboration with CSI, Feb. 19–24, 2024.
- B.Satish Babu, five day online FDP on 'Deep Learning and Artificial Intelligence', APSSDC in Collaboration with ExcelR Edtech Pvt. Ltd., Feb. 26 – Mar. 01, 2024.
- All faculty members, one day workshop on 'Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressed) Act, 2013, Internal Complaints Committee (ICC), RVR&JCCE, Apr. 03, 2024.
- B.Hemantha Kumar, online project 'Cloud Computing with Big Data', talentnext & Wipro Digital Skills Readiness Program, during Dec. 2023 – Mar. 2024.
- V.Sesha Srinivas, one day workshop on 'Crafting Excellence: A Workshop on Mastering Outcome Based Education for Faculty', IEEE RVR&JCCE Student Branch, Apr. 04, 2024.
- N.Neelima, K.Chandana, five day online FDP on 'Data Visualization using Tableau', Mohan Babu University, Tirupati, Andhra Pradesh & ExcelR Edtech Pvt. Ltd., Apr. 01–05, 2024.

- V.Sesha Srinivas, A.Yaswanth Kumar, one day workshop on ‘Think Beyond: One day Faculty Workshop on validating Ideas (ASPIRE–2024)’, Entrepreneurship Development Cell, RVR&JCCE, Jun. 15. 2024.
- V.Sesha Srinivas, A.Yaswanth Kumar, N.Neelima, B.Manasa, five day online FDP on ‘Intellectual Property Rights in the age of AI, ML, Cyber Security and Blockchain’, Department of Computer Applications, Mangalmay Institute of Management & Technology, Gr. Noida, Jun. 24–28, 2024.
- K.Chandana, five day online FDP on ‘AI: The Omnipresent Sapient’, Department of Computer applications, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, Jun. 24–28, 2024.

PhD Awarded under Faculty Guidance

- **Under the guidance of Prof.A.Srikrishna, RVRJCCE, two Ph.Ds were awarded:**
 1. D.Ravi Babu was awarded doctorate degree in April, 2024 from ANU. The title of the thesis was ‘CBIR System using Ensemble Enhanced ABC with Related Edge Clustered Pixel Extraction and Interlinked Feature Query on Remote Sensing Images’.
 2. P.Ramesh Babu was awarded doctorate degree in June, 2024 from ANU. The title of the thesis was ‘Efficient Decision Support System to Improve the Accuracy of Tomato Leaf Disease Identification Using Deep CNN Models.
- **Under the guidance of Prof.B.Hemantha Kumar, RVRJCCE, one Ph.D was awarded:**
 1. A.Uday Kumar was awarded doctorate degree in April, 2024 from ANU. The title of the thesis was ‘Critical Study on Efficient of Ad-Hoc Routing Protocols’.

Industrial Tour visits

- The IT Department organized a short industrial visit for III B.Tech., students to Efftronics Systems Pvt Ltd., Vijayawada on Feb. 09, 2024.



Faculty Promotions

- Dr.Bh.Krishna Mohan was promoted as Associate Professor in the Department of Information Technology on Jan 1, 2024.
- Dr.G.Swetha was promoted as Associate Professor in the Department of Information Technology on Jan 1, 2024.

Faculty Recruitment

- Y.Meena joined as Assistant Professor in the department, April 2024.
- J.Madhan Kumar joined as Assistant Professor in the department, May 2024.

Student Activities/Chapters

- Intra Departmental Coding Contest (IDCC) club conducted coding contest on Mar. 21, 2024. Cash prizes worth Rs.3,250/- distributed for winners.

