Name of the Faculty	Dr. S.K.Chaya Devi		
Designation	Professor & HOD		
Date of Joining	11-08-2026		
E - Mail	hodece@jbiet.edu.in		
Educational Qualifications	**Name of the Degree**	**Institute**	**Class**
Ph. D	Doctor of Philosophy (Electronics and Communication Engineering	JNTUH,Hyderabad	Awarded
PG	M. Tech (Digital Electronics and computer Systems)	JNTUH,Hyderabad	First Class with Distinction
UG	B.Tech (Electronics and Communication Engineering	Regional Engineering College Warangal	First Class
Work Experience			
Teaching	30 Years		
Research	-----		
Industry	-		
Responsibilities held at the central level in college	●		
Responsibilities held at the departmental level in college	N.B.A. ,NAAC ,NIRF and dept R&D coordinator		
Courses Handled at UG Level	Basic Electronics , Digital System Design , Signal And Systems ,Digital Signal Processing ,Computer Organization ,Digital Image Processing , Machine Learning and Deep Learning ,Computer Vision,Embedded Systems and IoT, Microprocessors and Microcontrollers , VLSI System Design		
Courses Handled at PG Level	Machine Learning and Deep Learning		
Area of Research	Computer Vision		
Books/ Book Chapters Published	." AI Centric Smart City Eco System Technologies: Design and Implementation " , chapter: "Smart Vehicle Parking Management with IoT Technology " , .S.K. Chaya Devi, Sai Krishna Reddy Koppula, Publisher: CRC Press, Taylor & Francis Group, Florida,		

	USA Year: 2022 https://doi.org/10.1201/9781003252542.
Prominent Research Publications in Journals/Conference	• Dr.S.K.Chaya Devi, P.Shivamani Rayavarpu Lakshya "LEAF DISEASE DETECTION USING DEEP LEARNING AND IOT AUTOMATION" 5th International Conference on Soft Computing for Security Applications (ICSCSA-2025). 4-6, August 2025, at Dhirajlal Gandhi College of Technology in Salem, Tamil Nadu (accepted) IEEE conference • Dr.S.K.Chaya Devi, K.Rohit, B.Nitin,A.Revanth kumar "Advancing Image Illumination Through Intrinsic Transfer" 5th International Conference on Soft Computing for Security Applications (ICSCSA-2025). 4-6, August 2025, at Dhirajlal Gandhi College of Technology in Salem, Tamil Nadu (accepted) IEEE conference • Dr. P. Padmajaa , ,Dr. S. K. ChayaDevi,Dr. B. BBalaji "mproved Performance Analysis and Design of Dual Metal Gate FinFET for Low Power Digital Applications"*IJE Transactions C: Aspects*, Vol. 37, No. 06, June 2024, pp. 1059–1066. *IJE Transactions C: Aspects*, Vol. 37, No. 06, June 2024, pp. 1059–1066. (Scopus indexed) • Dr.S.K.Chaya devi ,P.Suraj "Pothole recognition using convolution neural networks and transfer learning" IAES International Journal of Artificial Intelligence (IJAI) Vol. 12, No. 3, September 2023, pp. 1204~1209,ISSN: 2252-8938 ,(Scopus indexed) • Dr.J. Vishnupriyan Dr.S. K. ChayaDevi Dr· V. Megala "Design and Qualitative Analysis of 5-nm Nanowire TFET with Spacer Engineering, Journal of Electronic Materials, Jan 2023. https://doi.org/10.1007/s11664-022-10182z (springer)(Scopus indexed) • Dr.S.K.Chaya Devi "Robust Prediction of COVID-19 Mortality with Ridge Regression and Hyperparameter Optimization", *3rd International Conference on Optimization Techniques in the*

Field of Engineering (ICOFE-2024), KSR Engineering College, Tamil Nadu, Oct 22–23, 2024. *(International)* (Scopus indexed)

- Dr.S.K.ChayaDevi "Recognition of Weed Detection in Smart Agricultural Farm Using Image Processing with IoT", *2nd International Conference on Augmented Intelligence and Sustainable Systems (ICAISS 2023)*, Chitkara University, Himachal Pradesh, Oct 11–13, 2023. ISBN: 979-8-3503-2579-9. *(International)* (Scopus indexed)

- Dr.S.K.Chaya Devi, Devika, Varsha Reddy "SPEECH EMOTION RECOGNITION WITH CNN, RNN - A Comparative Study " *Journal of Critical Reviews*, Vol. 7, Issue 18, Sep 2020. ISSN: 2394-5125. Vol. 7, Issue 18, Sep 2020. (Scopus journal)

- Dr.S.K.Chaya Devi , Devika ,Varsha Reddy " A Survey on Databases and Algorithms used for Speech Emotion Recognition" Volume 9, No.5, September - October 2020 International Journal of Advanced Trends in Computer Science and Engineering Available Online.http://www.warse.org/IJATCSE/static/pdf/file/ijatcse23952020.pdf, https://doi.org/10.30534/ijatcse/2020/23952020

- Dr.S.K.Chaya Devi Sujatha .T, Manith" Brain Tumor Detection with Deep Convolution Neural Network Methods" , *International Conference in Engineering and Technology (ICIET-2022)*, Sep 15–17, 2022. *(International)* JNTUH College of Engineering, Hyderabad.

- Dr,S.K.Chaya Devi , Vishal Reddy ,Akarsh " License Plate Detection of Motorcyclists Without Helmets" *International Conference on Computational Intelligence and Data Analytics.*

	(ICCIDA 2022), Vasavi College of Engineering, Jan 2022. *(International)*(Springer)(Scopus indexed).
	• Dr.S.K.Chaya Devi ,Varun Reddy" Early Prediction of Sepsis using Convolution and Recurrent Neural Networks", *ICASACE-2021 (Springer)*, MGIT, Hyderabad, July 29–31, 2021. *(International)* (Scopus indexed)
	• Dr.S.K.Chaya Devi" A Robust Technique of Boundary Maps by a Structured Edge Detector for Lung Field Segmentation in Chest Radiographs." *Advanced Science Letters*, June 2020, UGC Care – Group-1. E-ISSN: 1936-7317.
	• Dr.S.K.Chaya Devi"Image Denoising Using Fast and Flexible Convolution Neural Network , *High Technology Letters*, Aug 2020. ISSN: 1006-6748 (Scopus journal)
	• Dr.S.K.Chaya Devi , Susheel, Manoj .B " Plant Leaves Disease Identification with Convolution Neural Network" , *Strad Research*, June 2020. UGC Care Group-II, Web of Science. ISSN: 0039-2049. https://doi.org/10.37896/sr7.6/005
	• Dr.S.K.ChayaDevi A.Vamshi "Smart Attendance System Using Convolution Neural Network and Image Processing ,*European Journal of Engineering Research and Science*, Vol. 5, No. 5, May 2020 , (Scopus journal)
	• S.K.Chaya Devi, Dr.T. SatyaSavithri"Review on Segmentation of Nodule from Posterior and Anterior Chest Radiographs" *International Journal of Biomedical Imaging*, Oct 2018. https://doi.org/10.1155/2018/9752638(Scopus indexed) (SCI)
	• S.K.Chaya Devi, Dr.T.Satya Savithri" Rib Suppression and Nodule Detection from Posterior and Anterior Chest Radiographs" *International Conference on Sustainable*

	Computing in Science, Technology and Management (SUSCOM-2019), Amity University, Jan 19–20, 2019. *(International, hosted by Elsevier SSRN)* (Scopus indexed)

• S.K.ChayaDevi ,Dr.T.SatyaSavithri "Nodule Detection from Chest Radiographs with Different Methods", *Future Technologies Conference (FTC-2016)*, San Francisco, USA, Dec 6–7, 2016. DOI: 978-1-5090-4171. (Scopus indexed).

• S.K.ChayaDevi ,Dr.T.SatyaSavithri " Nodule Detection Using Circular Hough Transform" *IEEE 2nd International Conference on Communication and Intelligent Systems (CCIS)*, GLA University, Mathura, Nov 18–20, 2016. DOI: 978-5090-3209-9/16 ©2016 IEEE. (Scopus indexed) .

• S.K.ChayaDevi, Dr.T.SatyaSavithri" False Positive Reduction in Nodule Detection Using Multiscale Blob Detection and Thresholding", *2nd International Conference on Recent Trends & Innovation in Engineering & Technology (ICRTIET-2014)*, Dattamegha Institute, Wardha, Dec 19–20, 2014, ISBN: 978-3-643-24820.

• S.K.ChayaDevi Dr.T.SatyaSavithri " Mask Generation and Nodule Detection from Chest Radiographic Images" , *Joint Conference of Computer Science Applications and Signal Processing & Communications*, Lucknow, Sep 14–15, 2014.

• S.K.Chaya Devi Dr.T.SatyaSavithri" Comparative Study on Optimizing Parameters of Fuzzy C-Means Clustering" , *International Conference on Recent Advances in Design, Development & Operation of Micro Air Vehicles (ICRAMAV-2012)*, JNTU Hyderabad, Dec 10–12, 2012.

• S.K.ChayaDevi"Time-Varying Comb Filter for Reducing Spectral and Temporal Masking in Hearing Impairment" , *IEEE-Co-sponsored* |

	Conference on Advances in Communication, Navigation, and Computer Networks, Andhra University, March 17–18, 2012. • S.K.ChayaDevi Dr.T.SatyaSavithri " Potential Nodule Detection from Posterior and Anterior Chest Radiographs using Restricted Boltzmann Machine and SVM" ,*International Journal of Progresses in Engineering Management and Science*, Vol. 1, Issue 2, Sep 2015. ISSN (Print): 2395-7786, Online: 2395-7794. •

Patents Published	1. **"Smart Attendance System"** , **Patent Application Number**: **202341029239A,** **B.**Snehith, Dr.S,K.ChayaDevi,B.Leelavathy C.Siresha June 2023
	2. **"** IoT-Enabled Precision Agriculture System for Irrigation Efficiency and Crop Yield Optimization" **, Patent Application No.: 202541015282** , Bommera Sharath Chandra, Kunchala Pavan Kalyan, Dr. S. K. Chaya Devi, Ms. C. Sireesha, Dr. S. K. Prashanth, Publication Date: 07 March 2025.
Orcid id	https://orcid.org/0000-0003-2268-2690
Scopus ID	57193870906
Google Scholar ID	U5IY_-IAAAAJ
PROFESSIONAL MEMBERSHIPS	AMIETE
FACULTY DEVELOPMENT PROGRAMS /WORKSHOPS/CON FERENCES - CONDUCTED &	1 Conducted a 10-day FDP titled "Generative AI in Computer Vision and Image Processing – From Concepts to Applications" – Venue: Vasavi College of Engineering –June 2025 – In collaboration with: NIT Warangal E&ICT Academy

RESOURCE PERSON ROLES:	**2** Conducted a 3-day FDP on "SoCs on PYNQ Boards" – Venue: Vasavi College of Engineering – Dates: 26th to 28th March 2025 In collaboration with Corale technologies **3** **Resource Person** for FDP on "AI Revolution in Emerging Technologies" – Organized by: SRM University – Dates: 2nd to 7th June 2025 -Topic delivered – "Introduction of AI and Its Applications" **4** **Resource Person** for *"Online Technology-Based Entrepreneurship Development Program"* **Organized by:** SRM University – **Dates:** 29th December 2022 to 11th January 2023 – **Sponsored by:** DST & EDII – Topic delivered: IoT Applications in recent trends **5** **Resource Person for , "National Workshop on Microcontroller Architecture and Interfacing"** **Organized by – Andhra University, University science Instrumentation center,& department of System Design, Visakhapatnam. Dates: sep 2008 ,Topic delivered: Fundamentals of Interfacing** **6. Session Chair for paper presentations at " SPOORTHI -2k16" National Level Technical Symposium on 18th and 19th March 2016 at the department of ECE in JNTUH** •
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/ Workshops (Attended)	• Recent Trends in Signal and Image Processing Applications – FDP, Vasavi College of Engineering, 12–21 June 2023 (E&ICT Academy) • Designing and Modelling of IoT, AIML Systems – FDP, 01–05 Aug 2022 (AICTE–ATAL, ARM, STMicroelectronics) • Designing with FPGAs – FDP, IIT Guwahati, 12–17 Mar 2022 (E&ICT Academy) • **International Conference on Computational Intelligence & Data Analytics (ICCIDA-2022) –** Vasavi College of Engineering, Jan 2022

	• 40-Hour FDP on Blockchain and IoT – VCE & NIT Warangal, 12–22 July 2021 (E&ICT Academy) • **Artificial Intelligence Using MATLAB** – St. Joseph's College of Engineering, Chennai, 13–14 Aug 2020 • **Simulation of Data Communications and Networking using NS2** – Vignan Bharathi Institute of Technology, 01–06 June 2020 • **Artificial Intelligence** – G. Narayanamma Institute of Technology, 22–26 May 2020 • **Teaching Techniques with Gamification (Online)** – ICT Academy, 14–19 May 2020 • **Trends in SoC Design and Applications** – Vasavi College of Engineering, 09–14 Dec 2019 (NIT Warangal & E&ICT Academy) •
NPTEL Online Certification Courses (AICTE–NPTEL)	• **Digital Image Processing** – July to Oct 2024 • **Microprocessor and Microcontrollers** – Jan to Apr 2024 • **Effective Engineering Teaching Practices** – Jan to Feb 2024 • **Microprocessor and Interfacing** – Jan to Apr 2023 • **Teaching and Learning in Engineering** – Jan to Feb 2023 • **Advanced Computer Architecture** – Feb to Apr 2021 • **Introduction to Internet of Things (IoT)** – Jan to Apr 2020 • **Deep Learning** – Jan to Apr 2020 • **Hardware Modeling using Verilog** – Aug to Oct 2017
Additional Information:	1.Reviewer for several conferences and "International Journal of Intelligent Robotics and Applications" springer journal **2.** External question paper setters for MGIT, CVR, Narayanamma, CBIT, JNTU A, JNTU H,SRM University