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CIENCIA

Involve and Evolve



Department of
Computer Science & Engineering

VIGNAN'S NIRULA
INSTITUTE OF TECHNOLOGY & SCIENCE FOR WOMEN
(Approved by AICTE NEW DELHI & Affiliated to JNTU Kakinada)
An ISO 9001: 2015 Certified Institution
Peda Palakaluru, Guntur - 522009
A Grade by AP Knowledge Mission



Department of CSE

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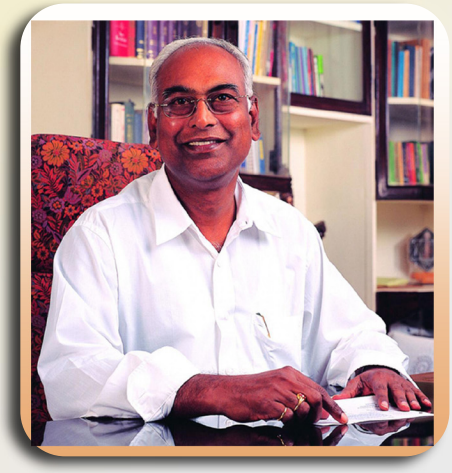
CHAIRMAN'S MESSAGE

DR. LAVU RATHAIAH –Chairman of Vignan's Institutions



" GOODLEADERS TURN DREAMS INTO DEEDS "

A Visionary Approach to Education: Dr.L. Rathaiah's Legacy

Education is the cornerstone of progress, and here at Vignan's Nirula, we have always strived to provide not just knowledge, but also the tools and environment necessary for our students to thrive in a rapidly changing world. The journey of education is not just about absorbing information but about fostering critical thinking, creativity, and a sense of responsibility towards society.

Our college stands at a pivotal moment. This new chapter is one where innovation meets tradition, where we uphold our values while embracing the future with open arms. We are committed to nurturing leaders who are not only academically proficient but also socially conscious, ethically grounded, and globally aware.

"So, dare to dream, strive for excellence, and know that the future you create begins with the choices you make today. Your potential is limitless—make the most of every moment."

VICE CHAIRMAN'S MESSAGE

LAVU SRI KRISHNA DEVARAYALU -Vice Chairman



"Collabrative and unity are the cornerstones ofprograms.Together we can archive more than we could do alone"

Mr. Lavu Sri Krishna Devarayalu, the esteemed Vice- Chairman of Vignan University in Andhra Pradesh, stands out as a dynamic and influential figure in both the educational and political spheres. Representing the Narasaraopet Constituency as a Member of Parliament, he is also a vital member of the Standing Committee on Human Resources Development, where he tirelessly advocates for the needs and aspirations of his state.

Embodying the Legacy of the great ruler Sri Krishna Devarayalu, celebrated as the Literary and cultural beacon of the Andhra region, Mr. Devarayaluskillfully balances his dual roles in education and politics. His Leadership and commitment reflect the values contemporary challenges with wisdom and determination.

"Dear Students, let determination and hard work guide you on the path of greatness. With discipline, there is no limit to what you can achieve."

PRINCIPAL 'S MESSAGE

DR. PATURI RADHIKA –Principal



"A College greatness is not measure by it test scores but by the values and character it instill in the students"

It is with great pride that I extend a warm welcome to you as you enter the hallowed portals of Vignan's Nirula, Institute of Technology and Science for Women—a premier institution dedicated to delivering top-quality technical education. Guided by the motto of upholding global standards while installing Indian values, Vignan's Nirula stands as one of the finest women's engineering colleges under JNTU Kakinada.

Our esteemed Chairman, Dr. Lavu Rathaiah Garu, envisioned this institution as a beacon of empowerment for women engineers across the nation. Through a commitment to excellence in education, coupled with a strong foundation in professional and ethical values, Vignan's Nirula is dedicated to shaping the leaders of tomorrow..

"Dear Students, stay curious and never stop learning, for each day brings new opportunities to grow. Keep striving for excellence!"

HOD'S MESSAGE

V.LAKSHMAN NARAYANA –HOD of CSE Department



"In every classroom, we teach not just knowledgebut the responsibility to act with integrity and uphold ethical standards".

I welcome all the students & their parents to the Department of Computer Science and Engineering at Vignan's Nirula Institute of Technology and Science for Women. Our primary goal is to provide both technical knowledge and leadership abilities to our students, enabling them to generate employment opportunities for others.

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The department takes pride in offering a diverse range of certification programs in PYTHON, JAVA, Internet of Things, and Machine Learning. These programs give students a competitive advantage over their peers from other institutes. The department extends invitations to esteemed professionals from both industry and academia to arrange numerous invited lectures, workshops, and conferences. The department's primary goal is to contribute to research and consultancy projects initiated by the government and other reputable enterprises. At terms of placements, the department has achieved exceptional results with students securing positions at renowned multinational companies such as Wipro, TCS, Oracle, Accenture, Cognizant, HCL, IBM, and others. With these initiatives and the department's dedicated work, VNITSW remains the first preference for all students seeking admission.

"Dear Students, embrace challenges with a positive mindset and turn them into stepping stones for success. Your dedication today shapes your future tomorrow."

¶ COMPUTER SCIENCE ENGINEERING ¶

• Pioneering Excellence in Computer Science Education:

The Computer Science and Engineering (CSE) Department at Vignan's Nirula Institute of Technology and Science stands at the forefront of innovation and academic excellence. The department is dedicated to nurturing the next generation of tech leaders through a robust curriculum, state-of-the-art facilities, and a commitment to research and development.

ØAcademic Programs:

The department offers a comprehensive range of undergraduate and postgraduate programs designed to equip students with the skills and knowledge required to excel in the ever-evolving field of computer science. Our curriculum is meticulously crafted to cover core areas such as algorithms, data structures, artificial intelligence, machine learning, and cybersecurity.

ØResearch and Development:

At Vignan Nirula, we believe in fostering a culture of research and innovation. The faculty members are actively engaged in cutting-edge research projects, often in collaboration with industry leaders and international institutions. This provides the students with unique opportunities to participate in groundbreaking research and contribute to advancements in technology.

ØState-of-the-Art Facilities:

The department boasts state-of-the-art laboratories and research centers equipped with the latest technology. These facilities provide an ideal environment for students to gain hands-on experience and apply theoretical knowledge to practical challenges. Our commitment to providing a conducive learning environment is reflected in our continuous investment in infrastructure and resources.

ØIndustry Collaboration:

The department maintain strong ties with the industry to ensure our students are well-prepared for the professional world. Through internships, workshops, and guest lectures, students gain valuable insights and real-world experience.

ØAchievements and Accolades:

The CSE department has a proud history of achievements. The students and faculty have received numerous awards and recognitions at national and international levels. The department take pride in alumni, who have gone on to excel in various fields, contributing significantly to the tech industry and academia.

DEPARTMENT OF CSE

☆Editorial Team-crafting content,creating impact☆

Welcome to this edition of Cencia. We are excited to present a compilation of significant narratives and accomplishments from our academic community, reflecting our collective dedication to excellence.

The editorial team has demonstrated exceptional diligence and commitment throughout the production of this magazine. Their meticulous attention to detail and innovative approach have ensured that each article effectively captures the diverse talents and noteworthy achievements of our members.

We extend our sincere appreciation to our editors for their unwavering dedication and enthusiasm in curating this publication. Your contributions have been invaluable, and we are grateful for your hard work in bringing this edition to fruition.



Dr.V.Lakshman Narayana
Associate Professor
HOD of CSE department



K.Chaitanya
Associate Professor
Magazine Co-Ordinator



P.Mythreyi
Co-Ordinator



P.Kousalya Devi
Chief-Editor



Sk.Reshma
Editor



Sk.Ayesha Julkha
Curator

Vision

To evolve as a **centre of excellence** for nurturing **computer professionals** with **research** and **innovation** skills, inculcating moral **values** and **societal concerns.**



Mission



M1 :To transform students into **creative computer engineers** to meet global challenges.

M2: To produce competent and **quality professionals** by imparting computer concepts and techniques and a zest for **research and higher studies.**

M3:To build **Entrepreneur skills** and **Leadership qualities** in the students by inculcating the spirit of **Ethical values.**

KNOWLEDGE ILLUMINATORS

FACULTY LIST: Experienced mentors exceptional educators
Igniting curiosity fueling creatively our faculty empowers students to achieve ourdreams they shape next generation and fosters academic excellence and personalgrowth.

S.No	Name	Qualification	Designation
1	Dr.V.Lakshman Narayana	B.Tech,M.Tech,Ph.D	Associate Professor
2	Dr.M.Uma Devi	MCA,M.Tech,Ph.D	Professor
3	Dr.K.Hemanth Kumar	MCA,M.Tech,Ph.D	Professor
4	Dr.B.Renuka Devi	B.Tech,M.Tech,Ph.D	Professor
5	Dr.A.Naresh	M.Sc,M.Tech,Ph.D	Professor
6	Dr.B.Tulasi	B.Tech,M.Tech,Ph.D	Associate Professor
7	Dr.V.Sujatha	B.Tech,M.Tech,Ph.D	Associate Professor
8	Dr.G.Rajesh Chandra	B.Tech,M.Tech,Ph.D	Associate Professor
9	Dr. A.Senthil Kumar	B.Tech,M.Tech,Ph.D	Associate Professor
10	Dr.M.Vasumathi Devi	B.Tech,M.Tech,Ph.D	Associate Professor
11	Dr.K.Satya Sandeep	B.Tech,M.Tech,Ph.D	Associate Professor
12	Dr.Sivadi Balakrishna	B.Tech,M.Tech,Ph.D	Associate Professor
13	P.Silpa Chaitanya	B.Tech,M.Tech	Assistant Professor
14	I.Leela Priya	B.Tech,M.Tech	Assistant Professor
15	Y.Swathi	B.Tech,M.Tech	Assistant Professor
16	G.Manidheer Babu	B.Tech,M.Tech	Assistant Professor
17	T.Leela vathy	B.Tech,M.Tech	Assistant Professor
18	S.Radha Rani	B.Tech,M.Tech	Assistant Professor
19	J.Amar	B.Tech,M.Tech	Assistant Professor
20	Arepalli Peda Gopi	B.Tech,M.Tech	Assistant Professor
21	P.Ganga Bhavani	B.Tech,M.Tech	Assistant Professor
22	K.Jyosthna	B.Tech,M.Tech	Assistant Professor
23	Ch.Swarnalalitha	B.Tech,M.Tech	Assistant Professor
24	V.Nandini	B.Tech,M.Tech	Assistant Professor
25	K.Chandrakala	B.Tech,M.Tech	Assistant Professor
26	J.Vidhya	B.Tech,M.Tech	Assistant Professor
27	K.Chaitanya	B.Tech,M.Tech	Assistant Professor
28	M.Prasanna Kumar	B.Tech,M.Tech	Assistant Professor
29	Sk.Salma	B.Tech,M.Tech	Assistant Professor
30	T.N.Deepthi	B.Tech,M.Tech	Assistant Professor
31	D.S.Bhupal Naik	B.Tech,M.Tech	Assistant Professor
32	M.Satya Vijaya	B.Tech,M.Tech	Assistant Professor
33	D.Ravali	B.Tech,M.Tech	Assistant Professor
34	N.Brahma Naidu	B.Tech,M.Tech	Assistant Professor
35	B.Naga Vardhani	B.Tech,M.Tech	Assistant Professor
36	R.N.S.Jyothi	B.Tech,M.Tech	Assistant Professor

NATIONAL CADET CORPS

¶ NCC:Serving the nation with honour and integrity ¶

Aim of VNITSW NCC Unit:

ØInstilling Discipline: The NCC emphasizes the importance of self-discipline and adherence to rules, helping cadets develop a strong sense of responsibility and ethical conduct.

ØFostering Leadership: By providing opportunities for leadership roles and training, the NCC aims to cultivate future leaders who can take on challenges and inspire others.

ØDeveloping Character: Through its activities and training, the NCC focuses on building strong character traits such as integrity, resilience, and commitment.

ØEnhancing Physical Fitness: The program includes physical trainings and adventure activities designed to poster fitness, teamwork, and endurance.









NATIONAL SERVICE SCHEME

¶ NSS:Selfless Service ,Endless Impact ¶

NSS unit has been sanctioned to Vignan's Nirula by JNTUK on 26-06-2019 as self funded unit with Dr.V Sujatha, Assoc. Professor, CSE Dept. as Programme Officer. VNITSW NSS unit is established6 committee members and163 student volunteers . A spirit of volunteerism and a commitment to social development.

Objectives of VNITSW NSS Unit:

Ø**Involve Themselves:**To encourage students to get actively involved community problems in solving

Ø**Create Awareness:**To create awareness among students about the realities of rural and urban life.

Ø**Motivate for Selfless Service:**To motivate students to engage in selfless service and to give back to society in meaningful ways.









FACULTY CITATIONS

Faculty Footprints: A collection of Research Publications

The faculty of Vignan's Nirula Institute of Technology and Science for women are the comerstome of our academic excellence.Our distinguished professors and lecturers bring a wealth of industry experience, research expertise, and passion for teaching to the classroom with a student-faculty ratio that fosters personalized attention and mentorship our faculty members had a great publications here are some:

Dept.	Name and Designation of faculty	Event Attended	Organized by & place where held	Topic	Dates on which event was held
CSE	Dr.K.Satya Sandeep	FDP	InfoSys	Generative AI	31st July to 31st Aug 2023
CSE	Dr.K.Satya Sandeep	FDP	VNITSW	Recent Advances and Communication Engineering-An Approach through AI&ML	21st to 26th Aug 2023
CSE	Ms.P.Ganga Bhavani	FDP	VNITSW	Recent Advances and Communication Engineering-An Approach through AI&ML	21st to 26th Aug 2023
CSE	Ms.V.Sasikala	FDP	VNITSW	Recent Advances and Communication Engineering-An Approach through AI&ML	21st to 26th Aug 2023
CSE	Dr.V.Sujatha, Assoc.PRof	Training Program	Wipro TalentNext	Cloud Computing	11th sep to 15th sep 2023

PAPER PUBLICATIONS

Vignan's Nirula, offer a unique platform for students and faculty alike to contribute to intellectual discourse.Unlike the transiet nature of digital content,print editions foster a sense of permanence.Articles, Essays, and creative works published in print are curated with great care,reflecting the dedication and professonalism of contributors. Each edition becomes a testament to the institutions's commitment to scholarship, critical thinking and artistic expression.

Name & Designation: Dr. Lakshman Narayana
Dr. V. Sujatha

Title : Computer Tomography image based interconnected Antecedence clustering model using deep convolution neural network for prediction of COVID-19.

Conference held at : Traitment du Signal 40(4)

Month & Year : Oct-2023.



Dr.V.Sujatha & Mrs.P.Shilpa Chaitanya recognized as Wipro Certified Faculty.

"AWARDING THE EXCELLENCE"

Student Participated in Extra & Co-Curricular Activities

Vignan's Nirula proudly features the college's Kho-Kho team,highlighting their achievements and sportsmanship.The team's dedication and passion for the sport are truly inspiring, reflecting the college's emphasis on promoting physical fitness and teamwork.





ØSports help develop physical and mental discipline, promoting overall well-being and fitness.





ØParticipating in sports fosters teamwork, communication, and leadership skillsessential for personal and professional growth.

VIGNAN'S NIRULA : ENCOURAGING PARTICIPATION

At Vignan's Nirula Institute of Technology and Science for Women, the faculty and staff are dedicated to encouraging students to participate in NPTEL courses and exams. They recognize the immense value these courses bring in terms of knowledge enhancement and skill development. By promoting NPTEL, Vignan's Nirula aims to provide students with opportunities to learn from the best educators.

S.No	Student Name	Course Name	Result
1	Gajjala Mallika	Programming in Java, Operating System Fundamentals	Successfully Completed, Elite+Silver
2	Gorikapudi Susmitha	The joy of computing using Python, Operating System Fundamentals	Successfully Completed, Elite+Silver
3	Jaladi Varsha	The joy of computing using Python, Operating System Fundamentals	Successfully Completed, Elite+Silver
4	Kondavardhi Naga Ahalya	Computer Networks and Internet Protocol	Elite+Silver
5	Sajjala Raja Rajeswari Devi	Computer Networks And Internet Protocol	Elite+Silver
6	Chennamsetti Sravya	Operating System Fundamentals, Programming In Java	Elite, Elite+Silver
7	Chennamsetti Sravya	Computer Networks and Internet Protocol	Elite+Silver
8	Gorrepati Mohanasailaja	Programming In Java	Elite+Silver
9	Achanta Lakshmi Sandhya	Data Base Management System, Operating System Fundamentals, The Joy Of Computing Using Python	Elite, Elite, Elite+Silver
10	Rasaputra Vasavi Bayee	Data Base Management System, Operating System Fundamentals	Elite+Silver, Elite
11	M.Sai Priya	The Joy of Computing Using Python	Elite+Silver
12	Bhimani Dharma Tejaswini	The Joy of Computing Using Python	Elite+Silver
13	Boddapati Meghana Reddy	The Joy of Computing Using Python	Elite+Silver
14	Kandru Jhansi Manasa	The Joy of Computing Using Python	Elite+Silver
15	K. Likitha Naga Sri	The Joy Of Computing Using Python	Elite+Silver
16	Nagulapally Bhargavi	The Joy of Computing Using Python	Elite+Silver
17	Perecharla Anusri Madhulatha	The Joy of Computing Using Python	Elite+Silver
18	Shaik Karishma	The Joy of Computing Using Python	Elite+Silver
19	Y. Naga Joshnavi	The Joy Of Computing Using Python	Elite+Silver
20	SK. Tabassum	The Joy Of Computing Using Python	Elite+Silver

EFFORT OF EXCELLENCE

Vignan's Nirula proudly celebrates the outstanding achievement of its students, who have won a prestigious gold medal in a recent academics.



Our Student N.Nirmala Rani (19NN1A05A4) received Satyanarayana Endowment Gold Medal from JNTUK for academic excellence in 2023. This remarkable feat is a testament to the students' hard work, dedication, and perseverance. The institution congratulates its talented students on this impressive accomplishmen.The gold medal win enhances the reputation of Vignan's Nirula, reinforcing its position as a center of excellence.

"Vignan's Nirula: Where Excellence is the Gold Standard!"

ALUMINI VOICES



Sujitha Naredla
Application Developer - Accenture

"With an enduring dedication to the pursuit of excellence, my four-year journey of the B Tech Program atVignan's Nirula was a remarkable experience, filled with learning opportunities at every step. The studyprogram provides comprehensive course material touching on all the relevant topics.All this exposure and challenges at Vignan gave me a broader perception and confidence to thrive andprepared me well for the fierce competition in the corporate world".

Sree Kavya Batchu
Backend Developer – PayPal, Ex - TCS



"I am currently working as a Backend Developer at PayPal, where I have been for the past year and a half.Prior to that, I spent two years at Tata Consultancy Services, gaining valuable knowledge and experience.I would like to express my heartfelt gratitude to the faculty at Vignan's Nirula for their unwaveringsupport throughout my four years in Computer Science. The hands-on projects and practical work that my professors encouraged us to undertake, in addition to our daily learning, greatly enhanced my understanding and skills"..

STUDENT CHAPTERS

CSI - Computer Society of India

Type of the Activity: Quiz

Name of the event: Technical Quiz

A technical quiz typically tests your knowledge and skills in specific areas related to technology, engineering, programming, and computer science. These quizzes can range from basic to advanced levels, depending on the topic.

ISP- Internsala Student Partner

Type of the Activity: Seminar

Name of the event: Mastering data preprocessing for machine learning success.

Mastering data preprocessing is one of the most crucial steps in the machine learning pipeline. Good data preprocessing ensures that your machine learning models receive high-quality.

WTM- Women Techmakers

Type of the Activity: Seminar

Name of the event : The role of ethics in engineering

Ethics in engineering is a fundamental aspect of the profession, guiding engineers in making decisions that have a significant impact on public safety, environmental sustainability, and social responsibility.

STUDENT CHAPTERS



IFERP- Institute for Educational research and publication

Type of Activity: Workshop

Name of the event: Game development using python

Game development using Python can be a fun and rewarding experience, and Python offers several libraries and frameworks that make it easier to create games.

IAENG- International association of Engineers.

Type of Activity : Workshop

Name of the event: Web development using django

Django is a powerful, high-level web framework for Python that allows you to build web applications quickly and with less code.

Type of Activity: Seminar

Name of the event: Effective career planning for setting and achieveing professional goals

Effective career planning is a key to setting and achieving professional goals, ensuring that you're not only successful in your career balance.

OUR RECRUITERS

virtusa
Accelerating Business Outcomes

VYSHNAVI INFOTECH
Your Views... Our Implementations...

SLK

HCL INFRA
Trust, Honesty & Integrity... Always

Allsec Technologies

HWI A MEMBER OF CALDERYS

Tech Mahindra

tcs NINJA

accenture

TATA tcs digital
TATA CONSULTANCY SERVICES

SUTHERLAND

concentrix

amazon

movate

HCL

standard chartered

nagarro

SightPlan

Our recruiters are the cornerstone of our talent acquisition process.They bring expertise,dedication,and an eye for excellence,ensuing that the right talent meets the right opportunities.

LIMITLESS POSSIBILITIES & ENDLESS OPPURTUNITIES

"At Vignan's nirula..... we believe that true education empowers students to face adversity with strength and to lead with integrity, ensuring they are not just prepared for their careers, but also for the journey of life itself".

VIGNAN'S NIRULA

INSTITUTE OF TECHNOLOGY & SCIENCE FOR WOMEN

Approved by AICTE New Delhi & Affiliated to JNTU Kakinada

An ISO 9001:2019 Certified Institution

Pedapalakaluru, Guntur-522009













"Behind every great innovation is a line of code waiting to be written."

